

2022 GREEN INFRASTRUCTURE PROJECT

BID #22-15

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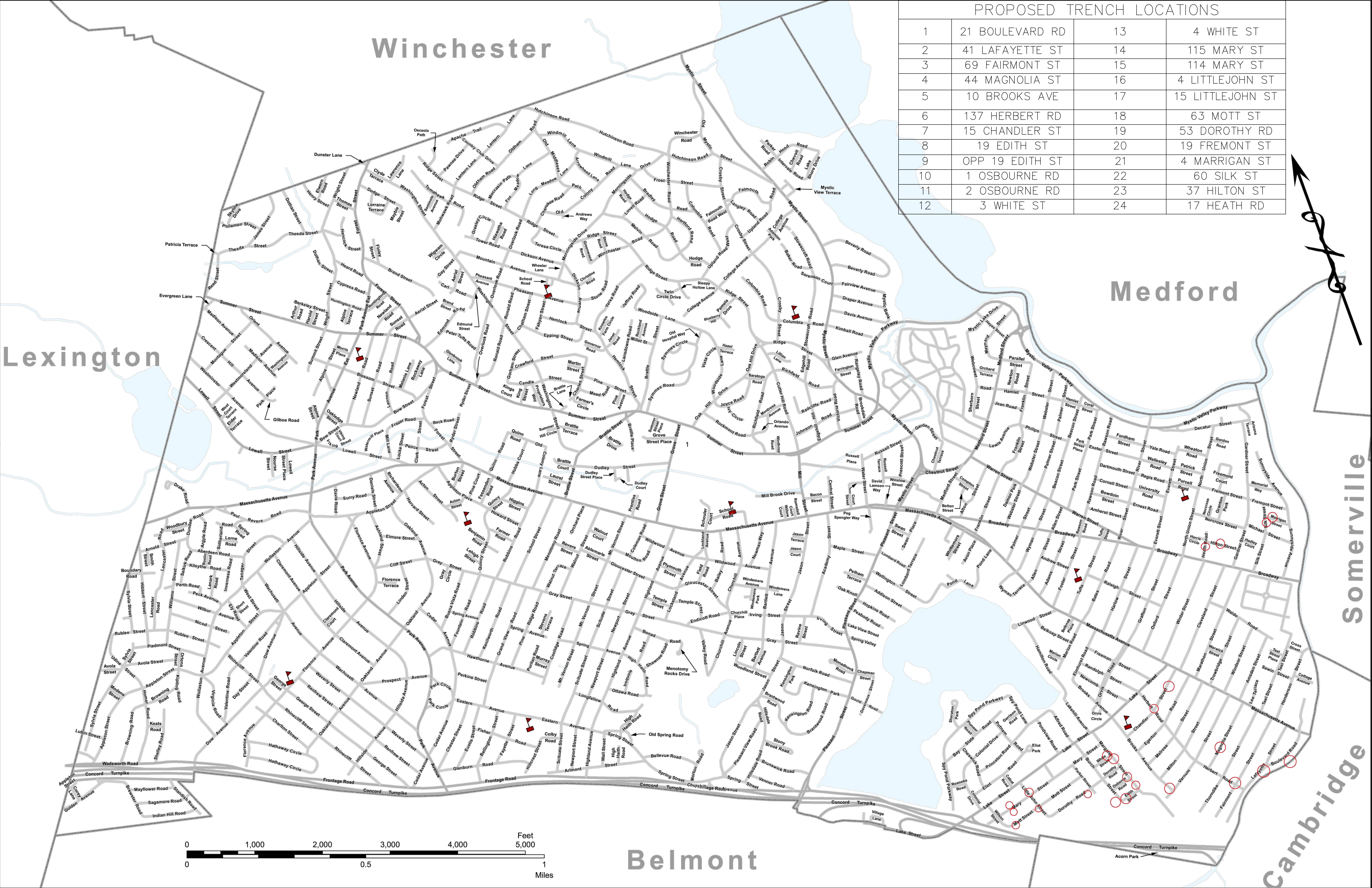
Massachusetts Office of Coastal Zone Management
251 Causeway Street, Ste 800
Boston, MA 02114



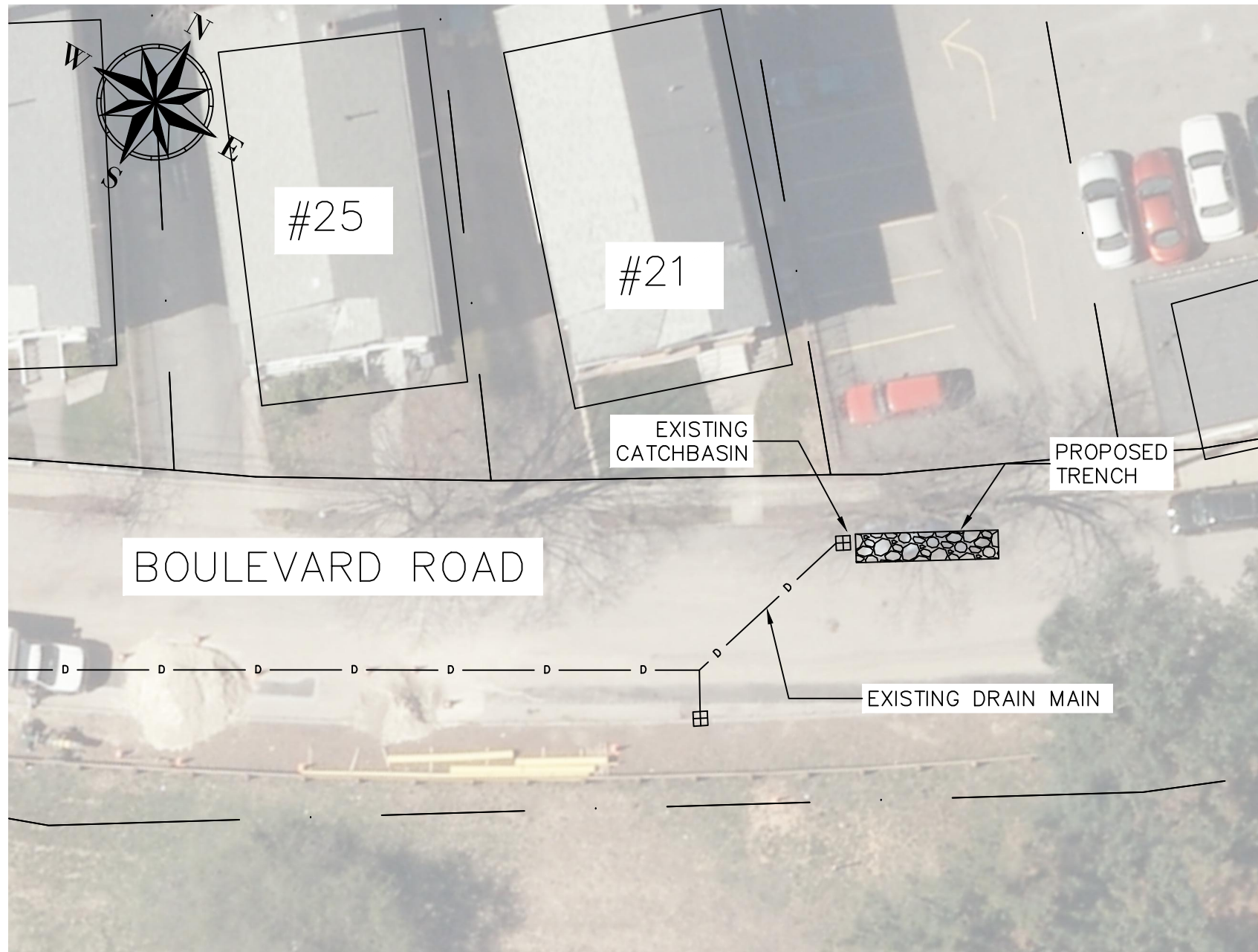
Mystic River Watershed Association
20 Academy St., Ste. 306
Arlington, MA 02476



Town of Arlington
Department of Public Works
51 Grove Street
Arlington, MA 02476

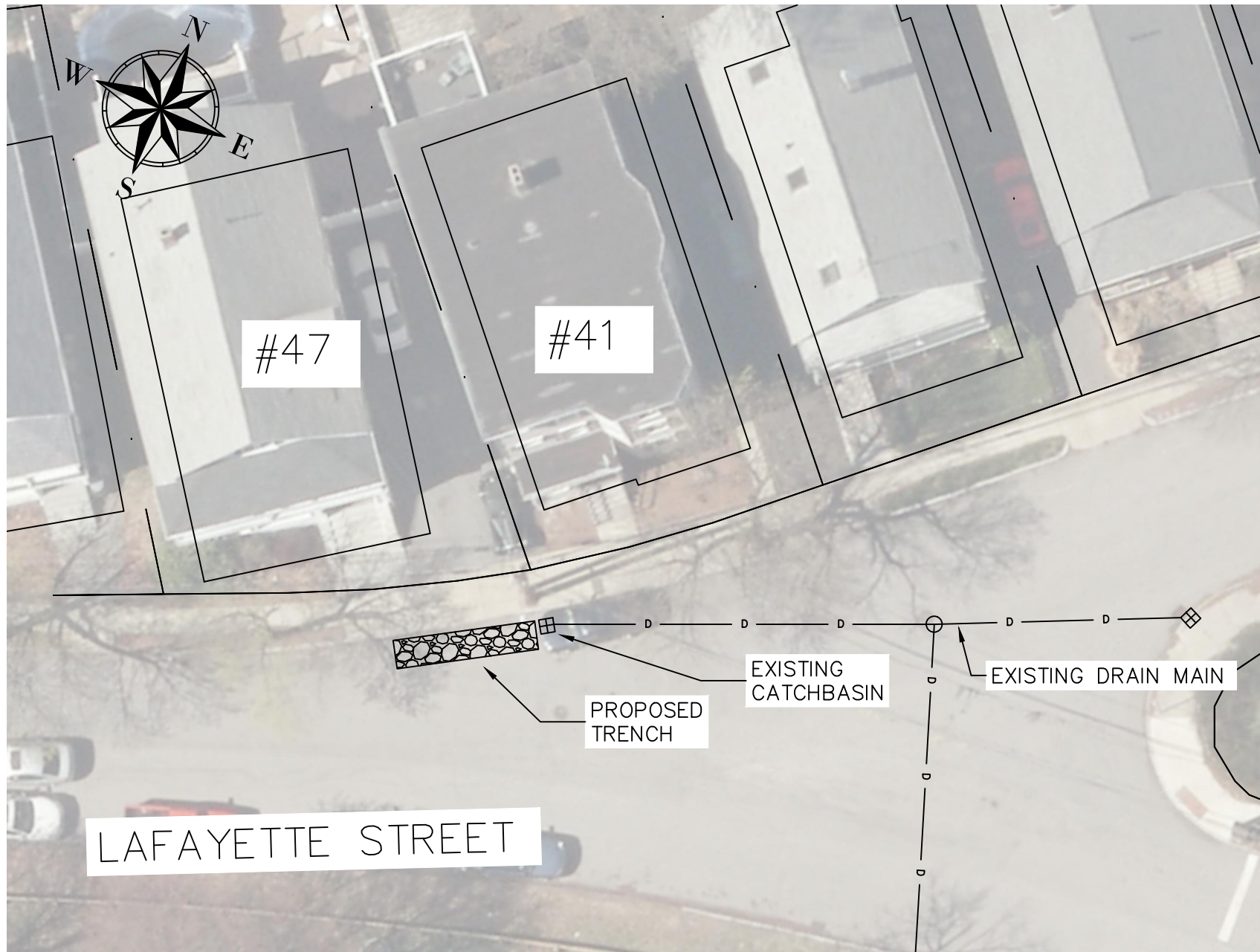


PROPOSED TRENCH LOCATIONS			
1	21 BOULEVARD RD	13	4 WHITE ST
2	41 LAFAYETTE ST	14	115 MARY ST
3	69 FAIRMONT ST	15	114 MARY ST
4	44 MAGNOLIA ST	16	4 LITTLEJOHN ST
5	10 BROOKS AVE	17	15 LITTLEJOHN ST
6	137 HERBERT RD	18	63 MOTT ST
7	15 CHANDLER ST	19	53 DOROTHY RD
8	19 EDITH ST	20	19 FREMONT ST
9	OPP 19 EDITH ST	21	4 MARRIGAN ST
10	1 OSBOURNE RD	22	60 SILK ST
11	2 OSBOURNE RD	23	37 HILTON ST
12	3 WHITE ST	24	17 HEATH RD



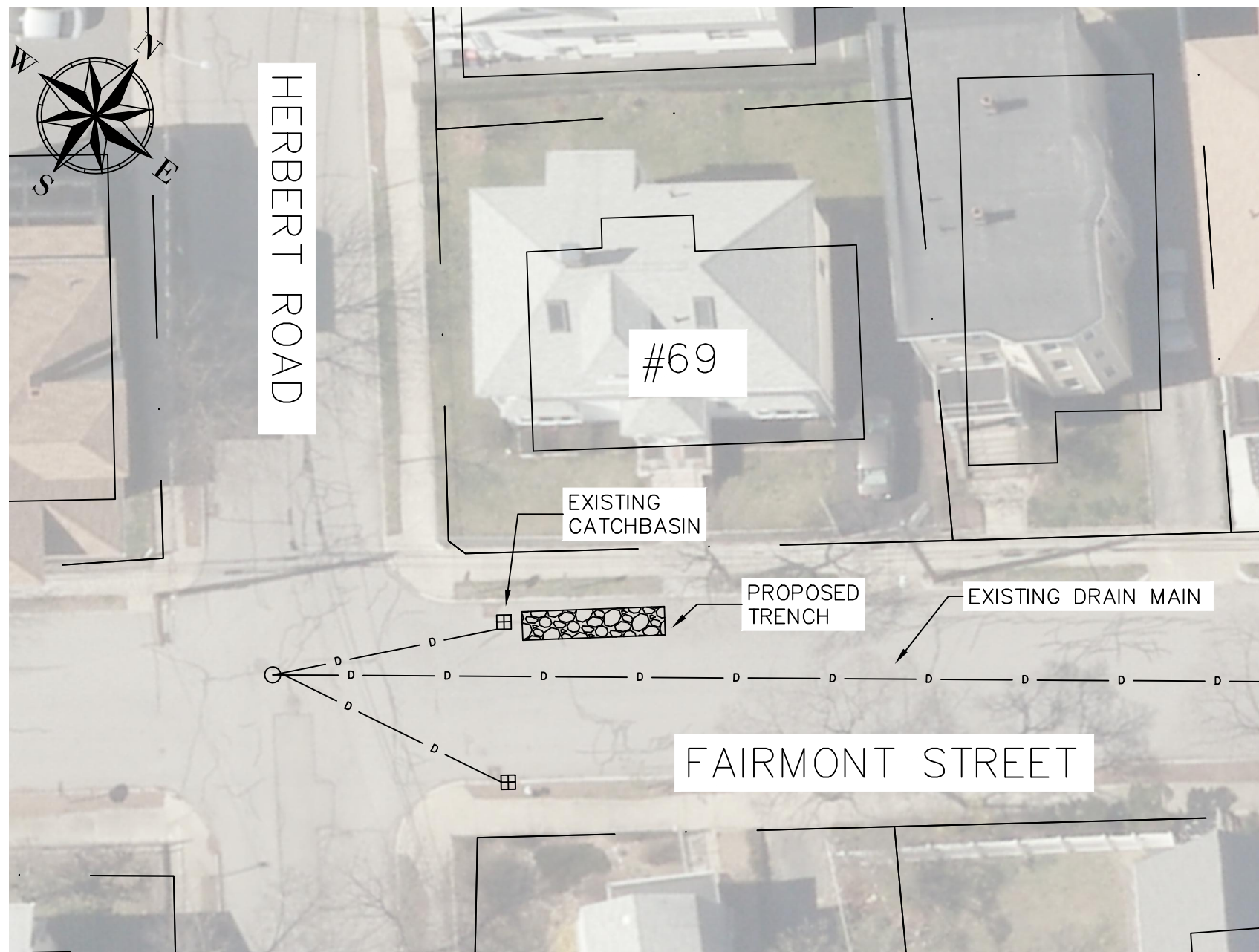
LOCATION#1 - 21 BOULEVARD ROAD
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	21 BOULEVARD ROAD	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	4	
DEPTH (FT)	6.75	
DEPTH EXISTING INV. OUT (FT)	2.50	
DEPTH TRENCH PIPE INV. (FT)	2.75	
IMPERVIOUS AREA (ACRES)	0.23	



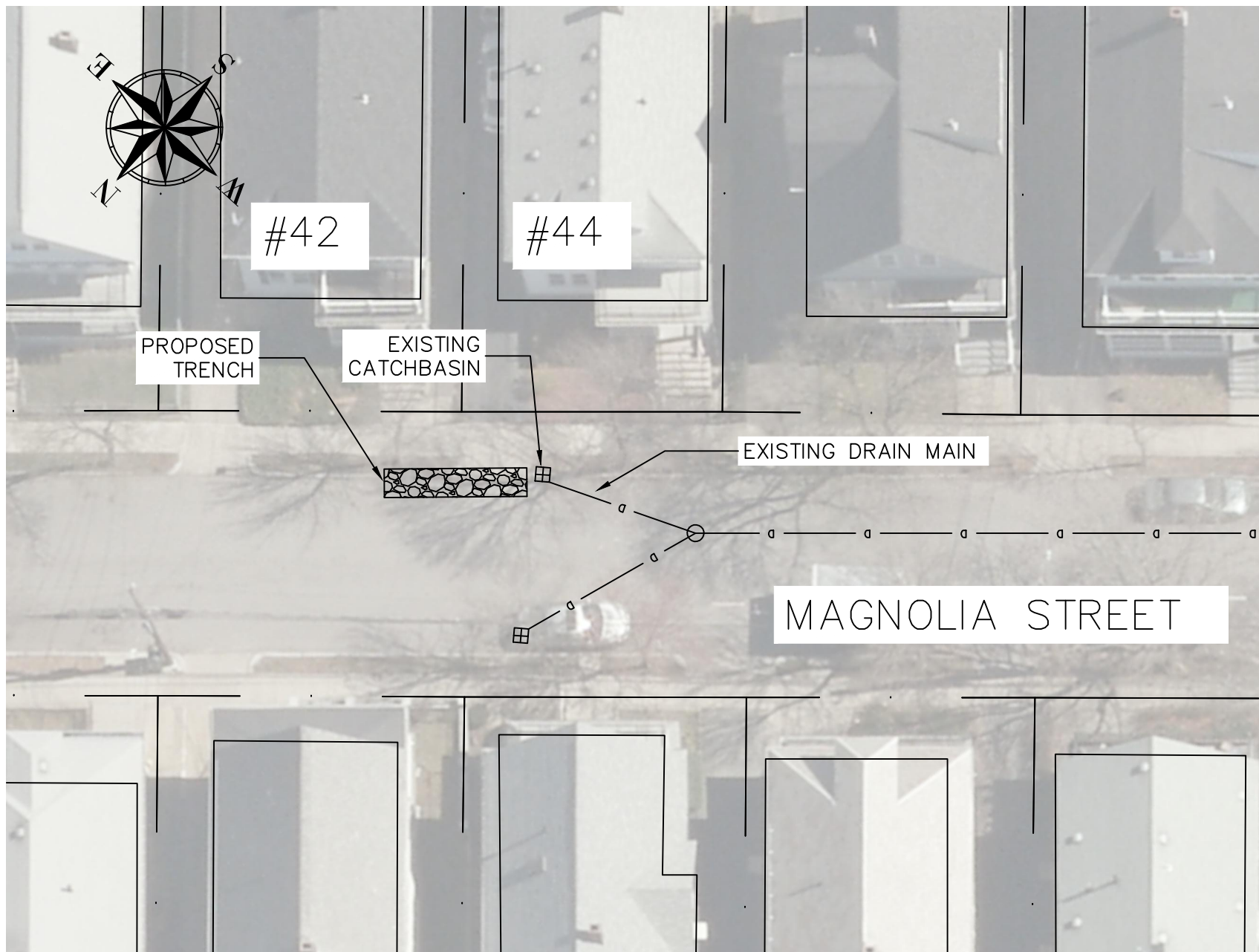
LOCATION #2 - 41 LAFAYETTE STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	41 LAFAYETTE STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	6.75	
DEPTH EXISTING INV. OUT (FT)	2.50	
DEPTH TRENCH PIPE INV. (FT)	2.75	
IMPERVIOUS AREA (ACRES)	0.15	



LOCATION #3 - 69 FAIRMONT STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	69 FAIRMONT STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	7	
DEPTH EXISTING INV. OUT (FT)	3.00	
DEPTH TRENCH PIPE INV. (FT)	3.25	
IMPERVIOUS AREA (ACRES)	0.15	



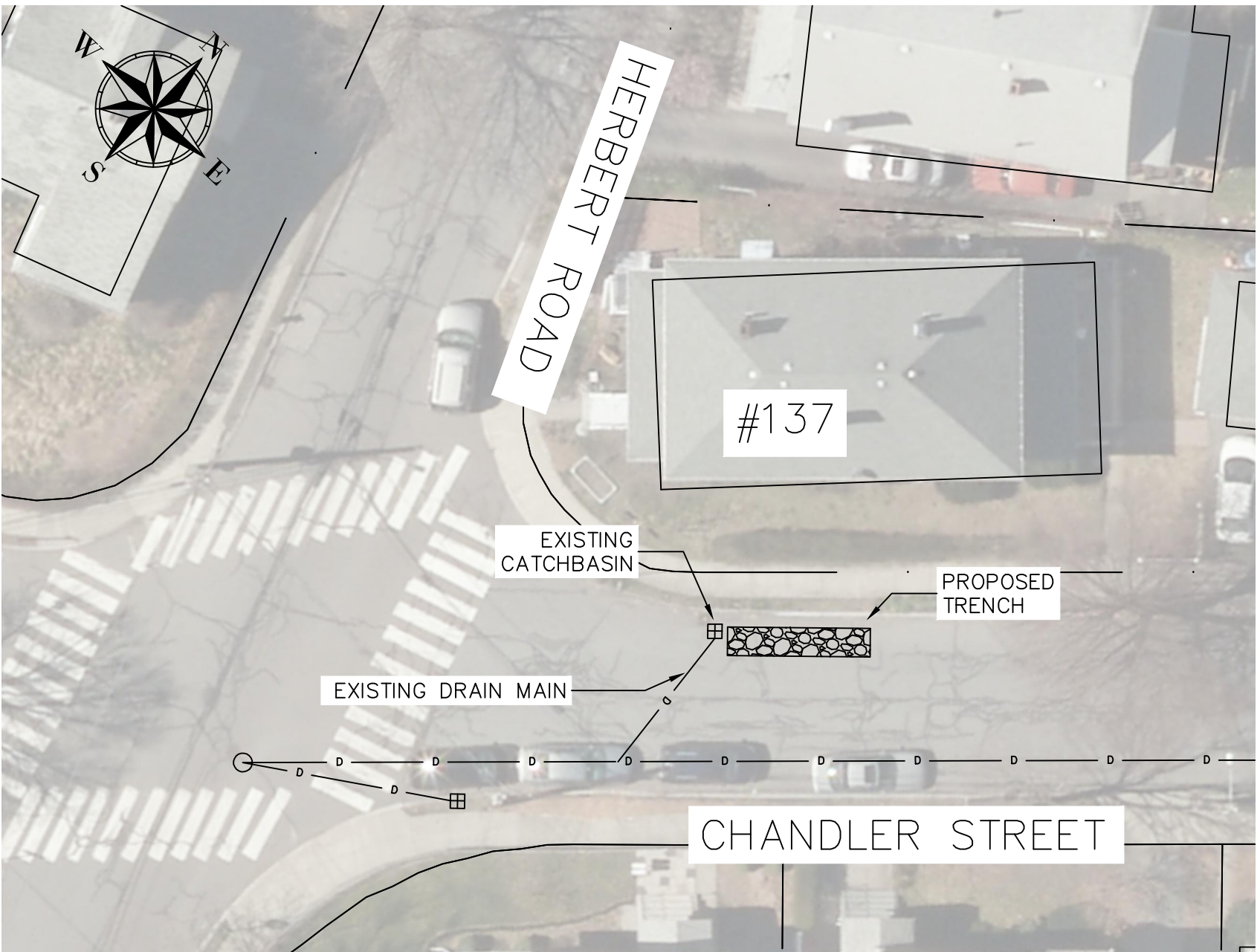
LOCATION #4 - 44 MAGNOLIA STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	44 MAGNOLIA STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	6.50	
DEPTH EXISTING INV. OUT (FT)	3.00	
DEPTH TRENCH PIPE INV. (FT)	3.25	
IMPERVIOUS AREA (ACRES)	0.28	



LOCATION #5 - 10 BROOKS AVE
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	10 BROOKS AVE	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	3.50	
DEPTH (FT)	6.45	
DEPTH EXISTING INV. OUT (FT)	2.70	
DEPTH TRENCH PIPE INV. (FT)	2.95	
IMPERVIOUS AREA (ACRES)	0.45	



LOCATION #6 - 137 HERBERT ROAD
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	137 HERBERT ROAD	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	4	
DEPTH (FT)	7.05	
DEPTH EXISTING INV. OUT (FT)	3.30	
DEPTH TRENCH PIPE INV. (FT)	3.55	
IMPERVIOUS AREA (ACRES)	0.29	

- NOTES**
1. PLANS WERE DEVELOPED USING AVAILABLE AERIAL IMAGERY, EXISTING PLANS, AND ON-SITE OBSERVATIONS. A FORMAL SURVEY OF THE PROJECT AREAS WAS NOT CONDUCTED. UTILITY LOCATIONS AND INVERT MEASUREMENTS ARE APPROXIMATE.
 2. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING DIG-SAFE AND ALL APPLICABLE UTILITIES OF THE PROPOSED WORK PRIOR TO ANY EXCAVATION. THE TOWN OF ARLINGTON IS NOT A MEMBER OF DIG-SAFE AND MUST BE NOTIFIED DIRECTLY AT LEAST 72 HOURS PRIOR TO EXCAVATION BY CALLING 781-316-3310.
 3. TRENCHES HAVE BEEN PROPOSED IN LOCATIONS WHERE NO UTILITY CONFLICTS WERE APPARENT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL APPLICABLE UTILITIES FOR APPROPRIATE MARK-OUTS AND CONFIRMING NO CONFLICTS ARE PRESENT. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER SHOULD ANY EXISTING UTILITY CONFLICTS BE IDENTIFIED WITHIN PROPOSED TRENCH LIMITS.
 4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING RESIDENTS AND ABUTTERS OF ANY WORK THAT MAY INTERFERE WITH DRIVEWAY AND WALKWAY ACCESS.
 5. A RELATIVE LOCAL DATUM HAS BEEN SET FOR EACH TRENCH LOCATION. THE CATCHBASIN RIM ELEVATION HAS BEEN SET TO ZERO FEET (0.0') AT EACH LOCATION.
 6. EXISTING ASPHALT SHOULD BE SAWCUT PRIOR TO EXCAVATION.
 7. TRENCHES SHOULD BE BACKFILLED AND COMPACTED IN 12 INCH LIFTS.
 8. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE CONSTRUCTION SIGNAGE AND BARRIERS AS NEEDED AND SHALL BE INCIDENTAL TO THE CONTRACT.
 9. CONTRACTOR TO MAINTAIN CLEAN WORK ZONE AND SWEEP WORK SITE DAILY.
 10. PAVING TO BE COMPLETED WEEKLY.
 11. EROSION CONTROL SHALL BE USED WHEN NECESSARY AND CONSIDERED INCIDENTAL TO THE CONTRACT. ANY SEDIMENT THAT ENTERS THE TOWN'S STORMWATER SYSTEM AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AT THE EXPENSE OF THE CONTRACTOR.
 12. CONTRACTOR SHOULD TAKE CARE TO NOT IMPACT NEARBY TREES DURING CONSTRUCTION.
 13. ANY AREA DISTURBED BY THE CONTRACTOR OUTSIDE OF THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.

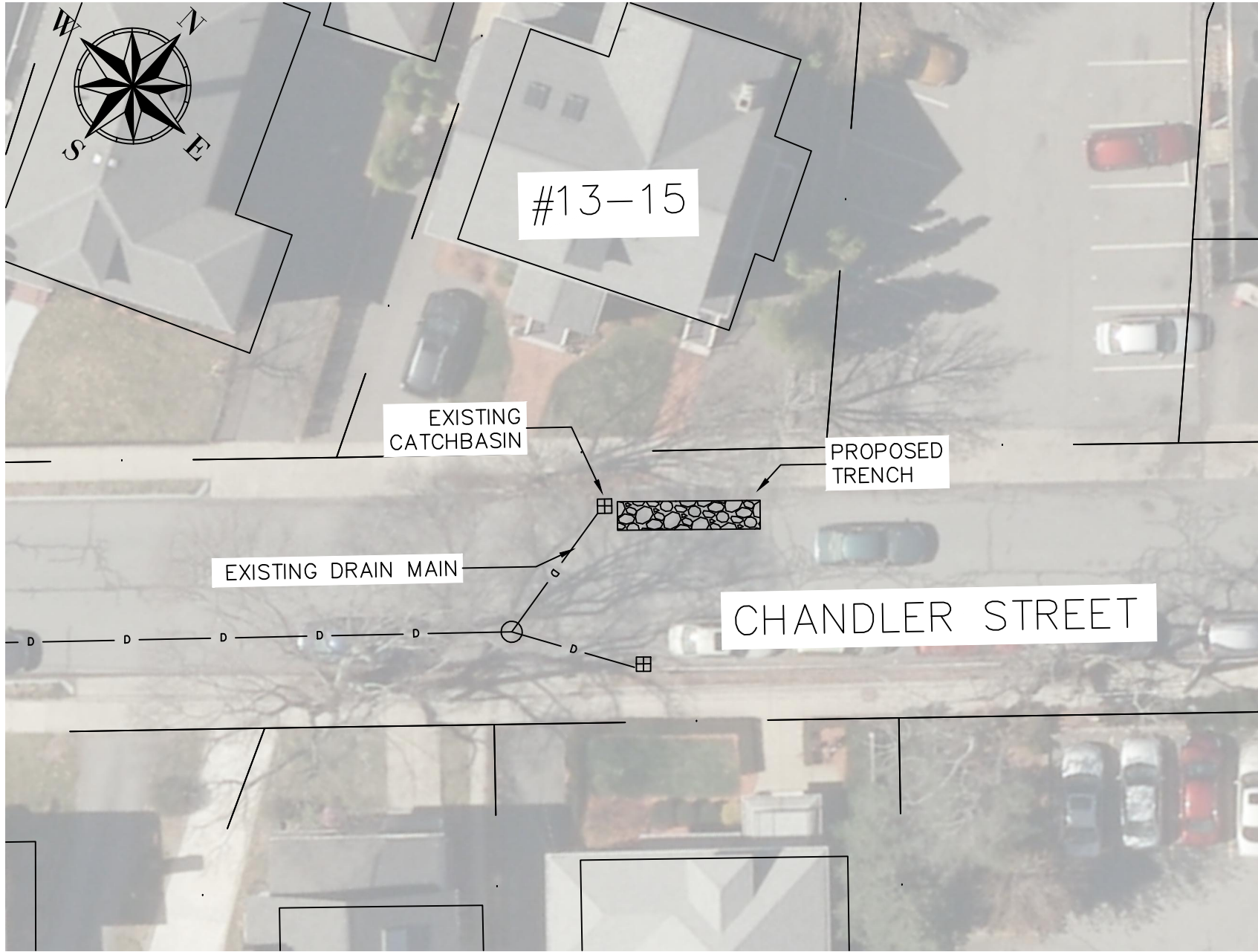
No.	Revision/Issue	Date

Town of
ARLINGTON
Engineering Division
51 Grove Street
Arlington, MA 02476

2022 GREEN INFRASTRUCTURE PROJECT

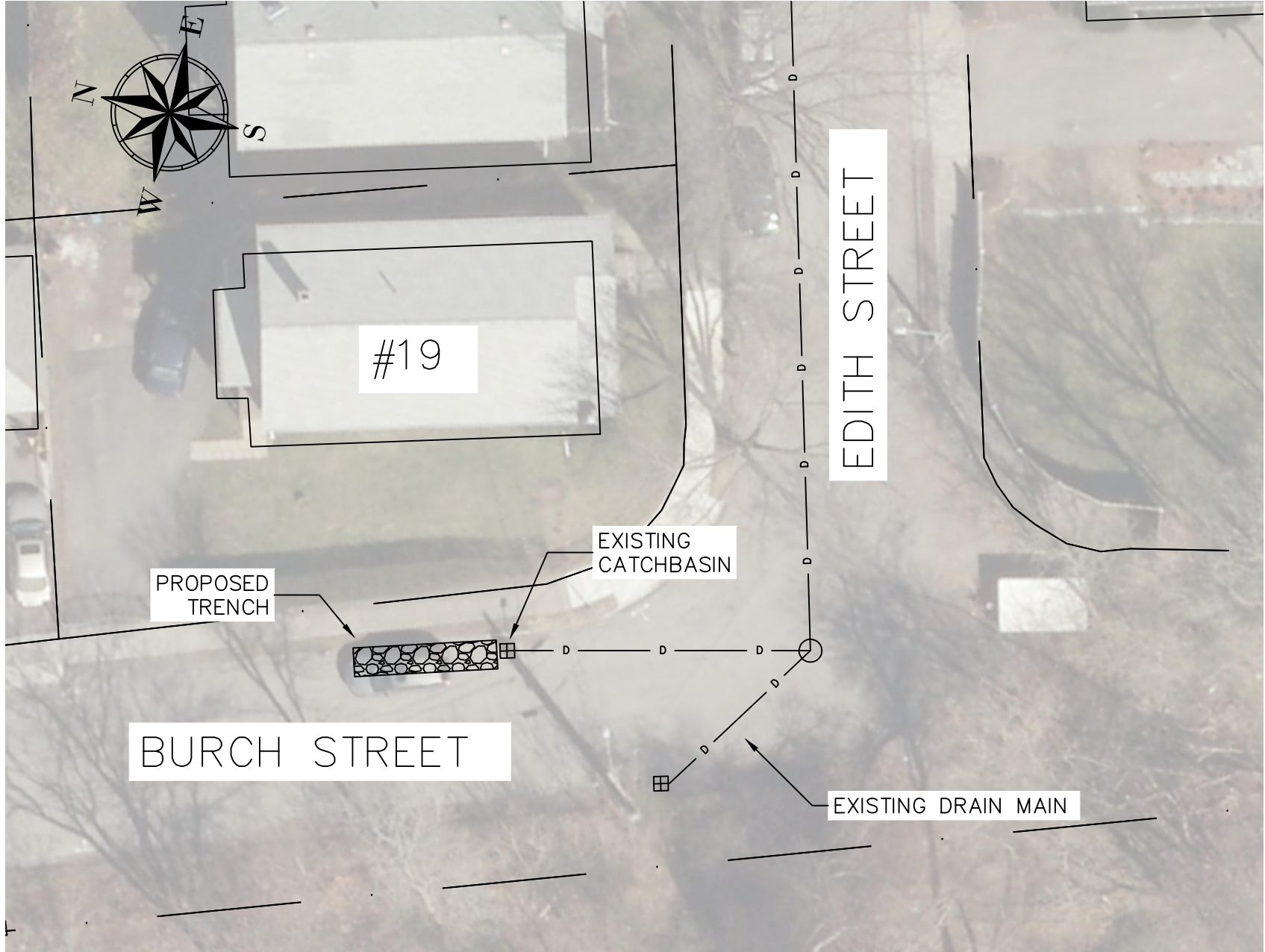
LOCATIONS 1-6

Drawn By:	AC	C-1
Verified By:	WCC	
Scale:	NTS	
Date:	FEBRUARY 2022	



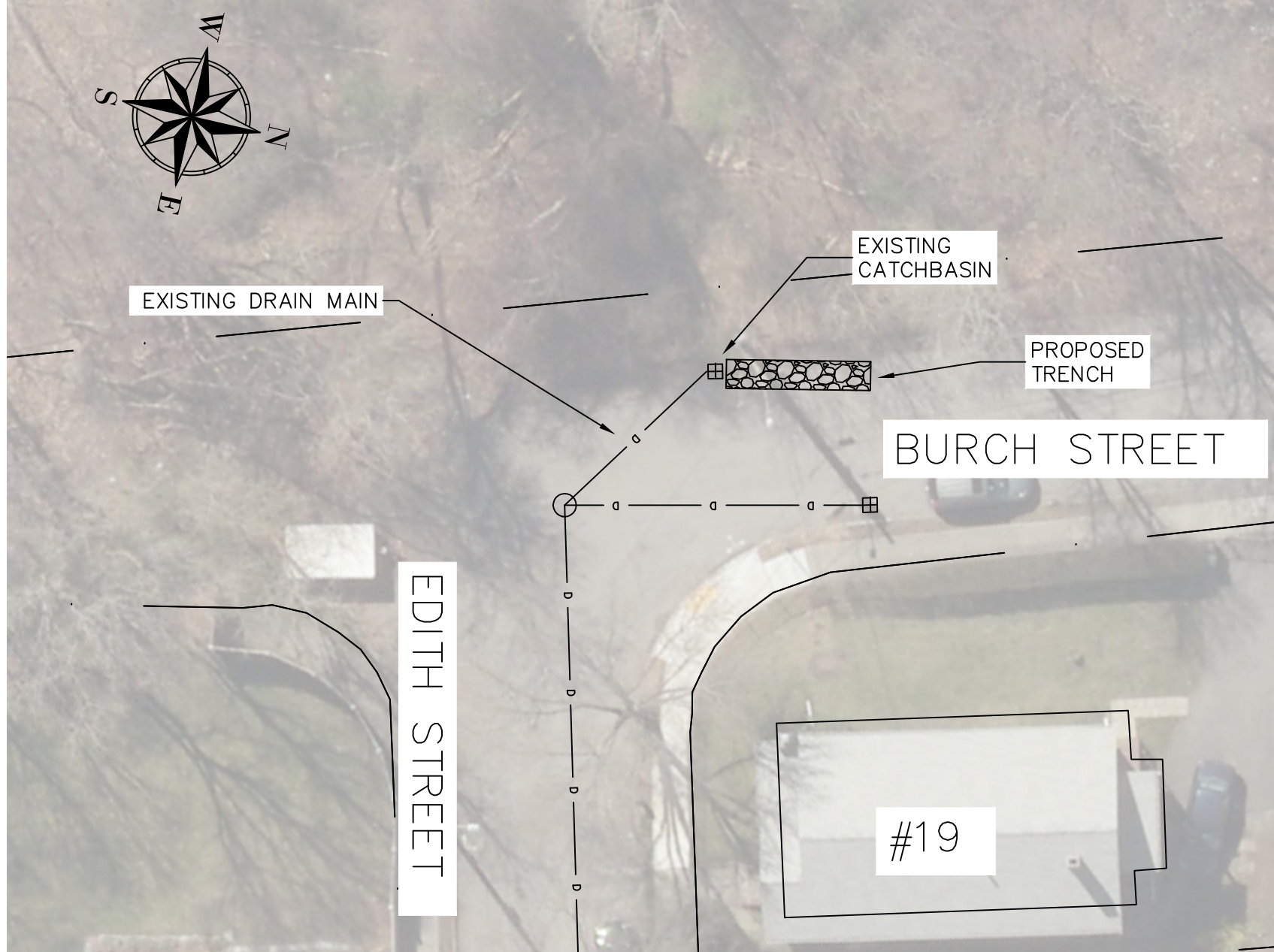
LOCATION#7 - 15 CHANDLER STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	15 CHANDLER STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	4.50	
DEPTH (FT)	7.15	
DEPTH EXISTING INV. OUT (FT)	3.40	
DEPTH TRENCH PIPE INV. (FT)	3.65	
IMPERVIOUS AREA (ACRES)	0.24	



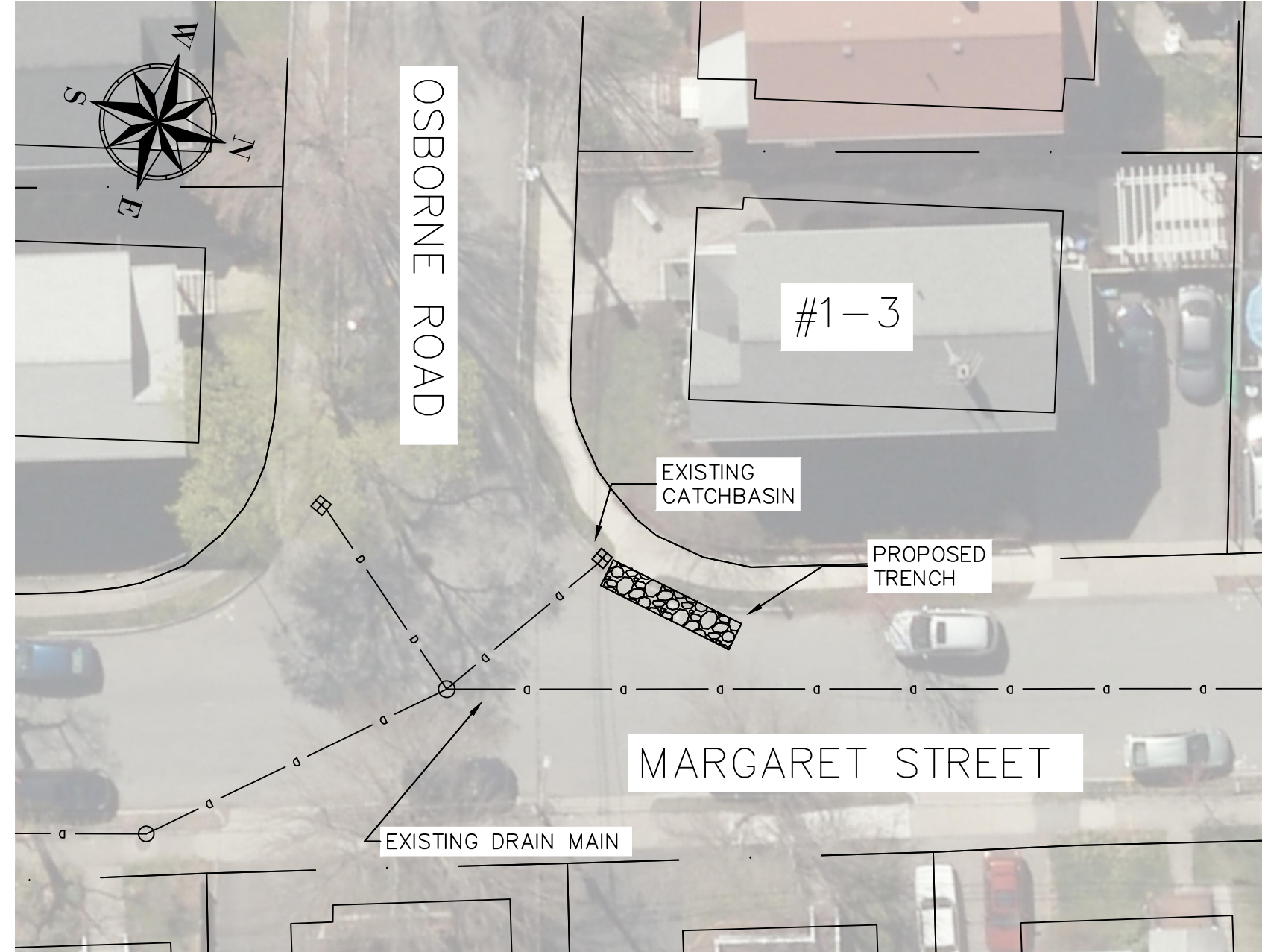
LOCATION #8 - 19 EDITH STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	19 EDITH STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	3.00	
DEPTH (FT)	6.05	
DEPTH EXISTING INV. OUT (FT)	2.30	
DEPTH TRENCH PIPE INV. (FT)	2.55	
IMPERVIOUS AREA (ACRES)	0.26	



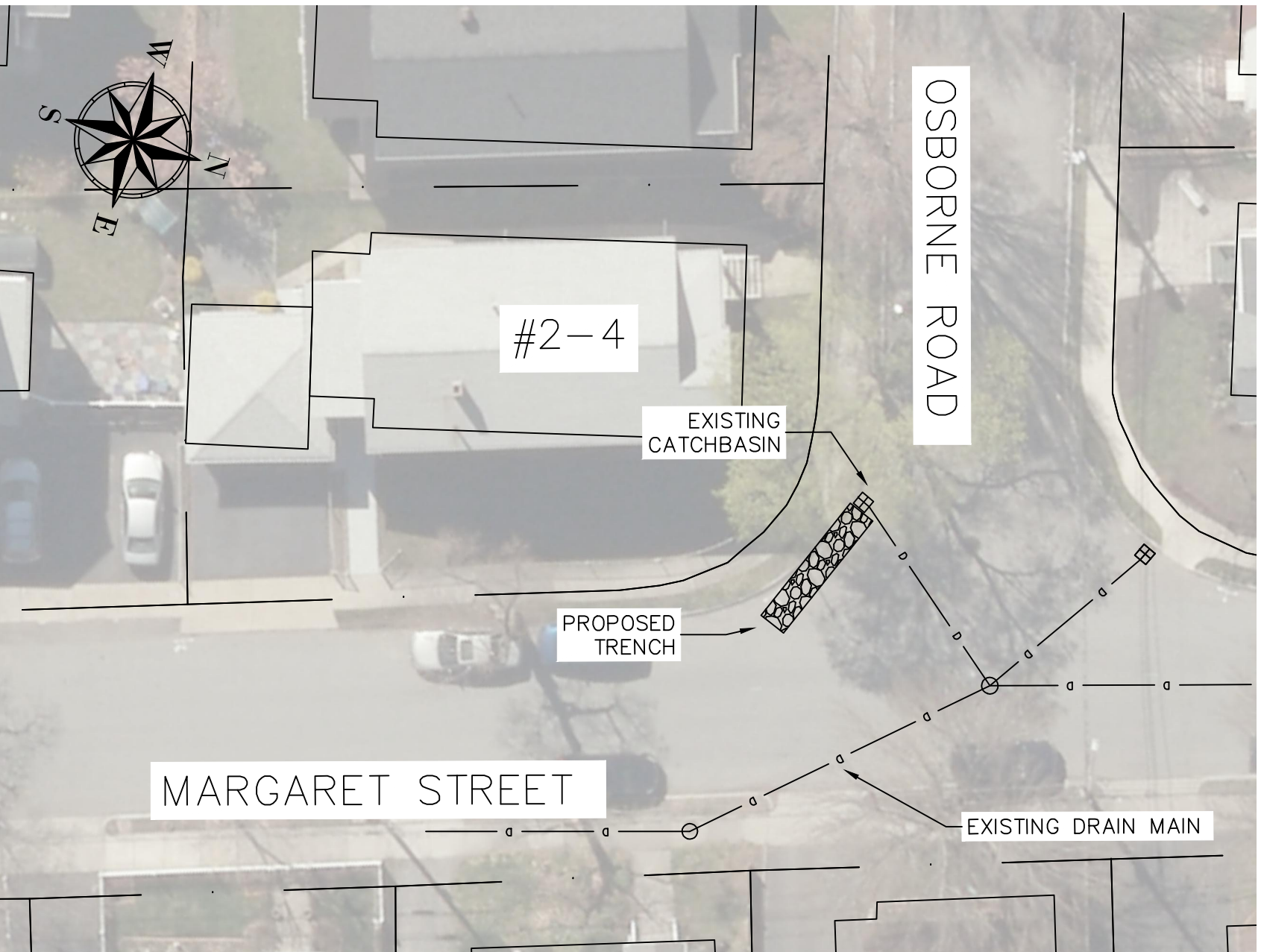
LOCATION #9 - OPP 19 EDITH STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	OPP 19 EDITH STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	4.00	
DEPTH (FT)	6.05	
DEPTH EXISTING INV. OUT (FT)	3.30	
DEPTH TRENCH PIPE INV. (FT)	3.55	
IMPERVIOUS AREA (ACRES)	0.25	



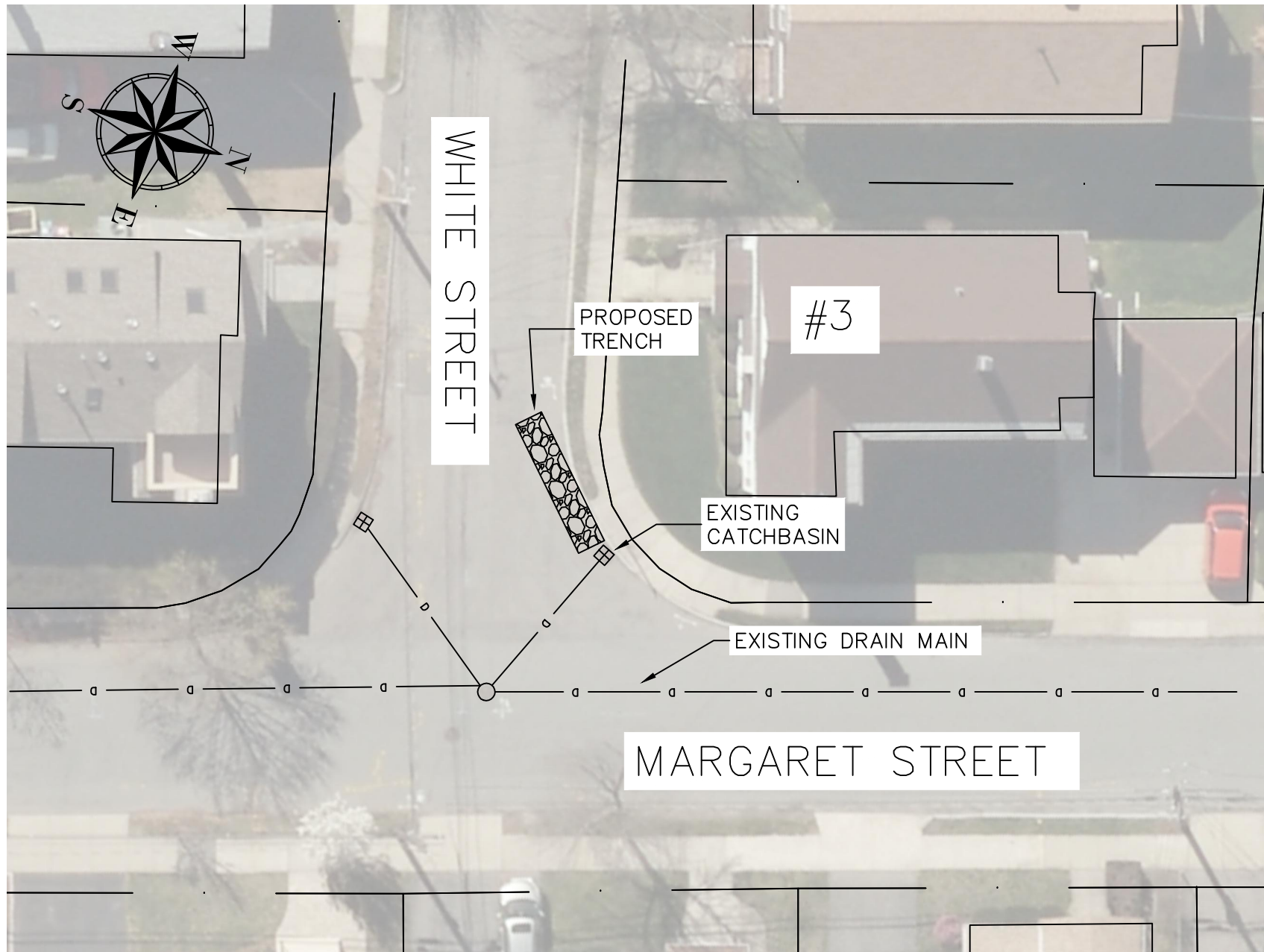
LOCATION #10 - 1 OSBOURNE ROAD
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	1 OSBOURNE ROAD	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4.00	
DEPTH (FT)	6.25	
DEPTH EXISTING INV. OUT (FT)	2.50	
DEPTH TRENCH PIPE INV. (FT)	2.75	
IMPERVIOUS AREA (ACRES)	0.15	



LOCATION #11 - 2 OSBOURNE ROAD
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	2 OSBOURNE ROAD	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4.00	
DEPTH (FT)	6.15	
DEPTH EXISTING INV. OUT (FT)	2.40	
DEPTH TRENCH PIPE INV. (FT)	2.65	
IMPERVIOUS AREA (ACRES)	0.14	



LOCATION #12 - 3 WHITE STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	3 WHITE STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4.00	
DEPTH (FT)	6.45	
DEPTH EXISTING INV. OUT (FT)	3.20	
DEPTH TRENCH PIPE INV. (FT)	3.45	
IMPERVIOUS AREA (ACRES)	0.23	

NOTES

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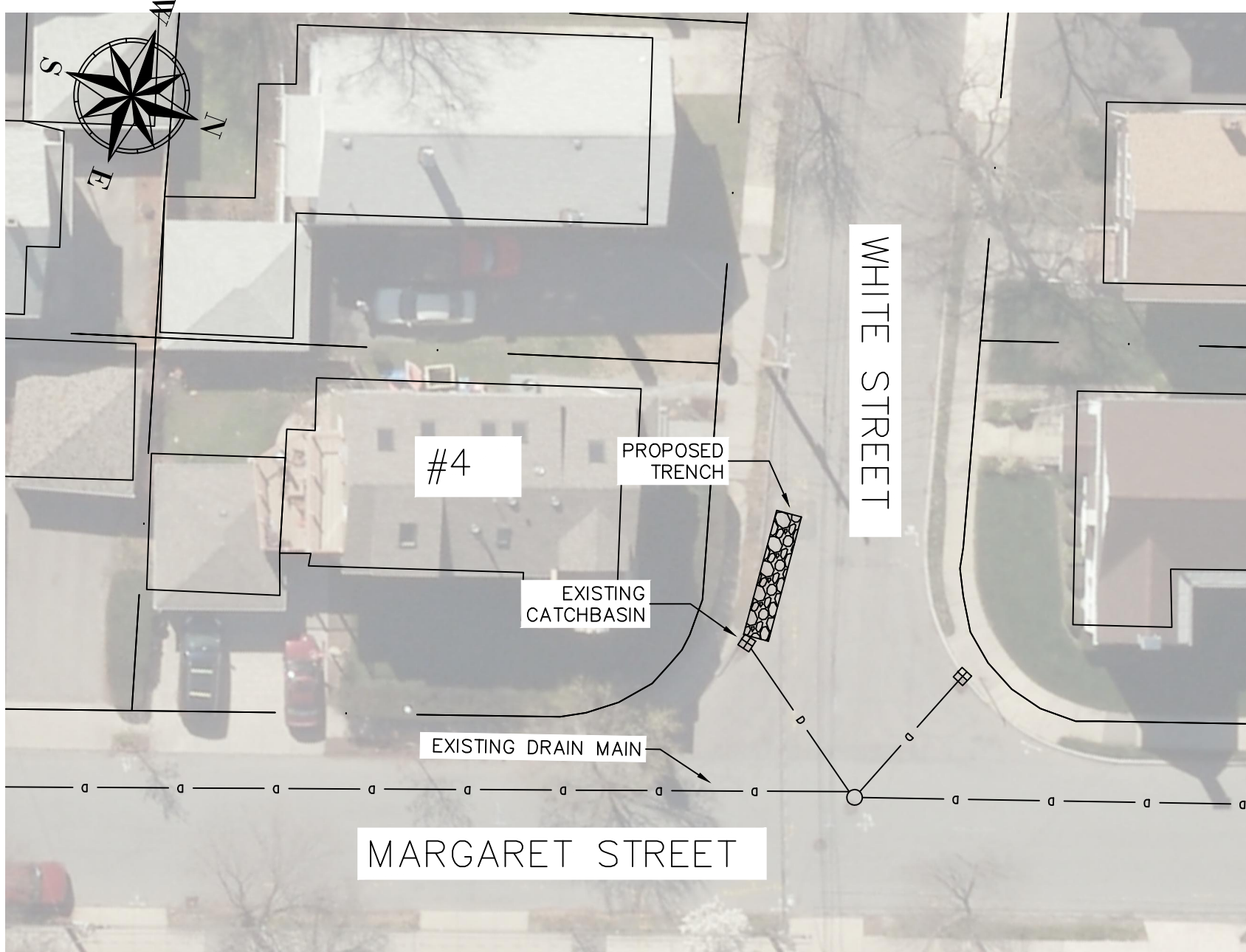
No.	Revision/Issue	Date

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Engineering Division
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Arlington, MA 02476

2022 GREEN INFRASTRUCTURE PROJECT

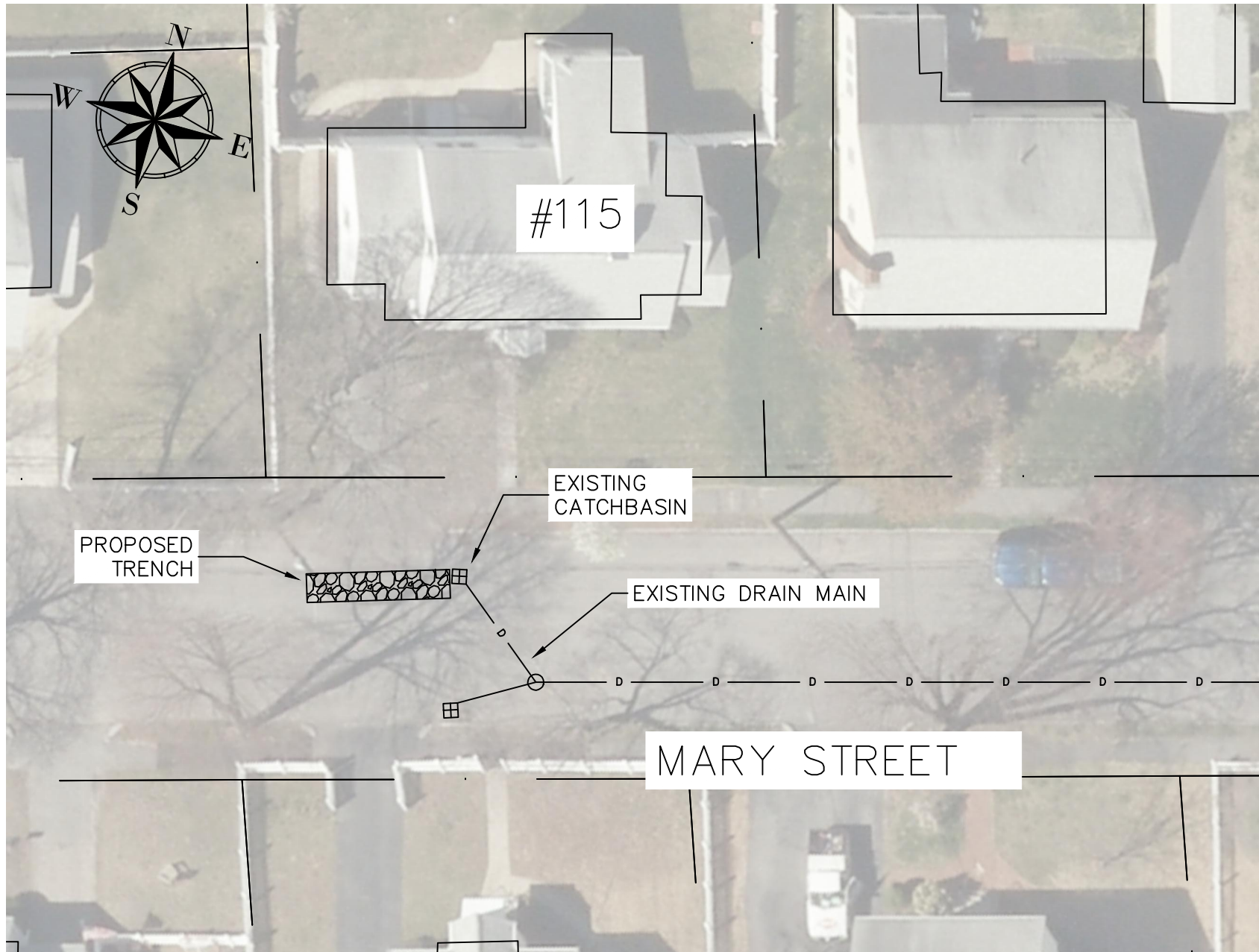
LOCATIONS 7-12

Drawn By: AC	C-2
Verified By: WCC	
Scale: NTS	
Date: FEBRUARY 2022	



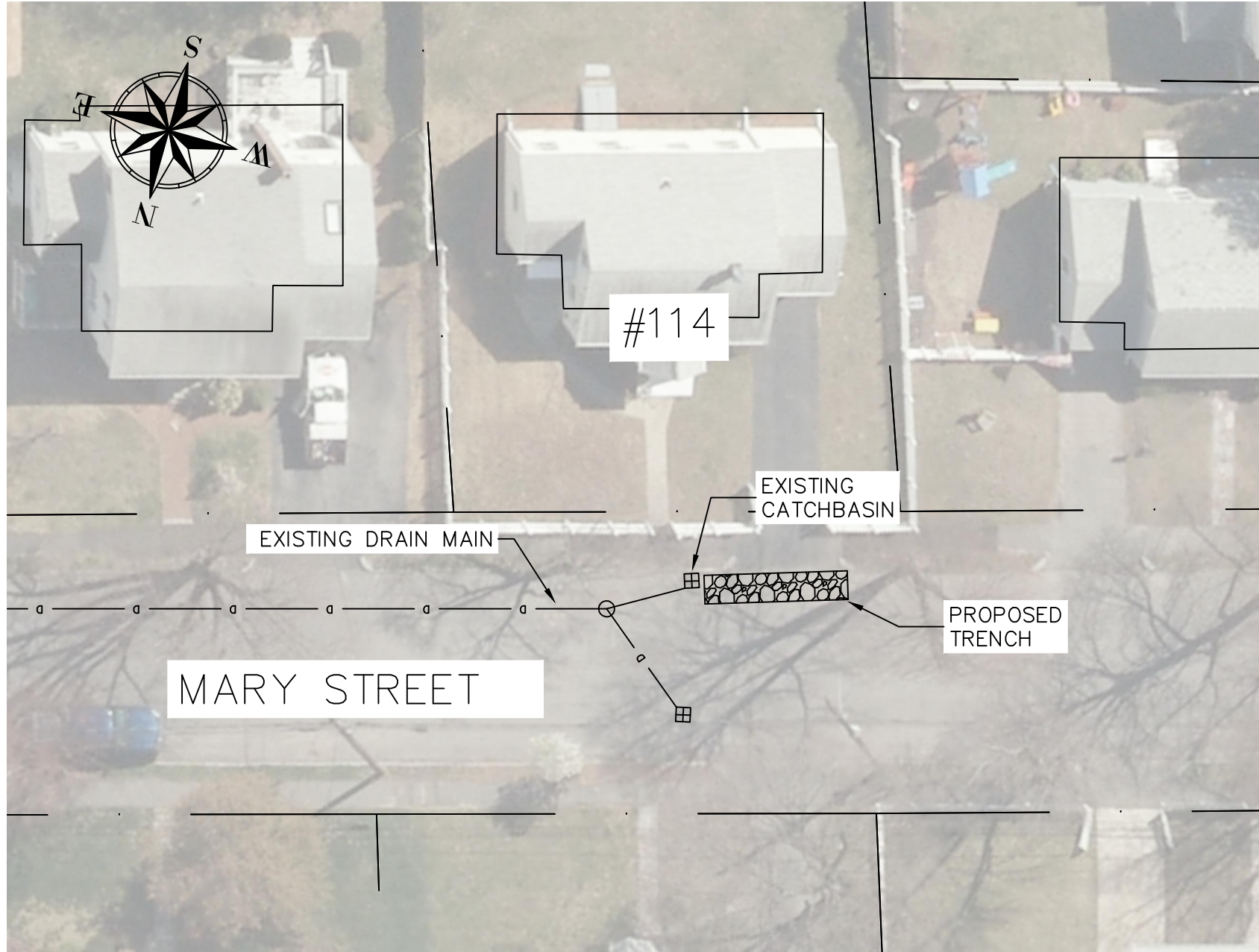
LOCATION#13 - 4 WHITE STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	4 WHITE STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	6.35	
DEPTH EXISTING INV. OUT (FT)	3.10	
DEPTH TRENCH PIPE INV. (FT)	3.35	
IMPERVIOUS AREA (ACRES)	0.22	



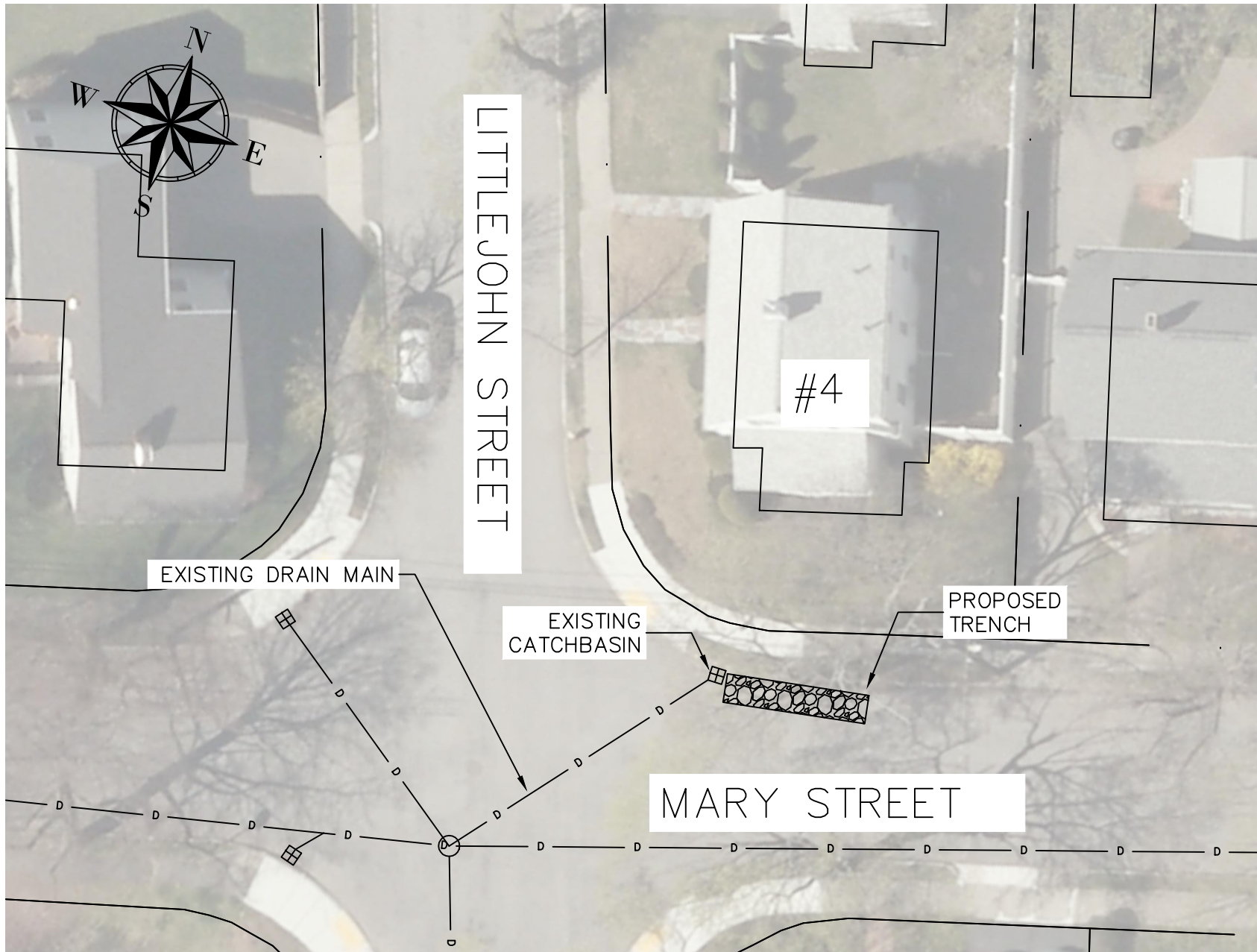
LOCATION #14 - 115 MARY STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	115 MARY STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	5.95	
DEPTH EXISTING INV. OUT (FT)	1.70	
DEPTH TRENCH PIPE INV. (FT)	1.95	
IMPERVIOUS AREA (ACRES)	0.31	



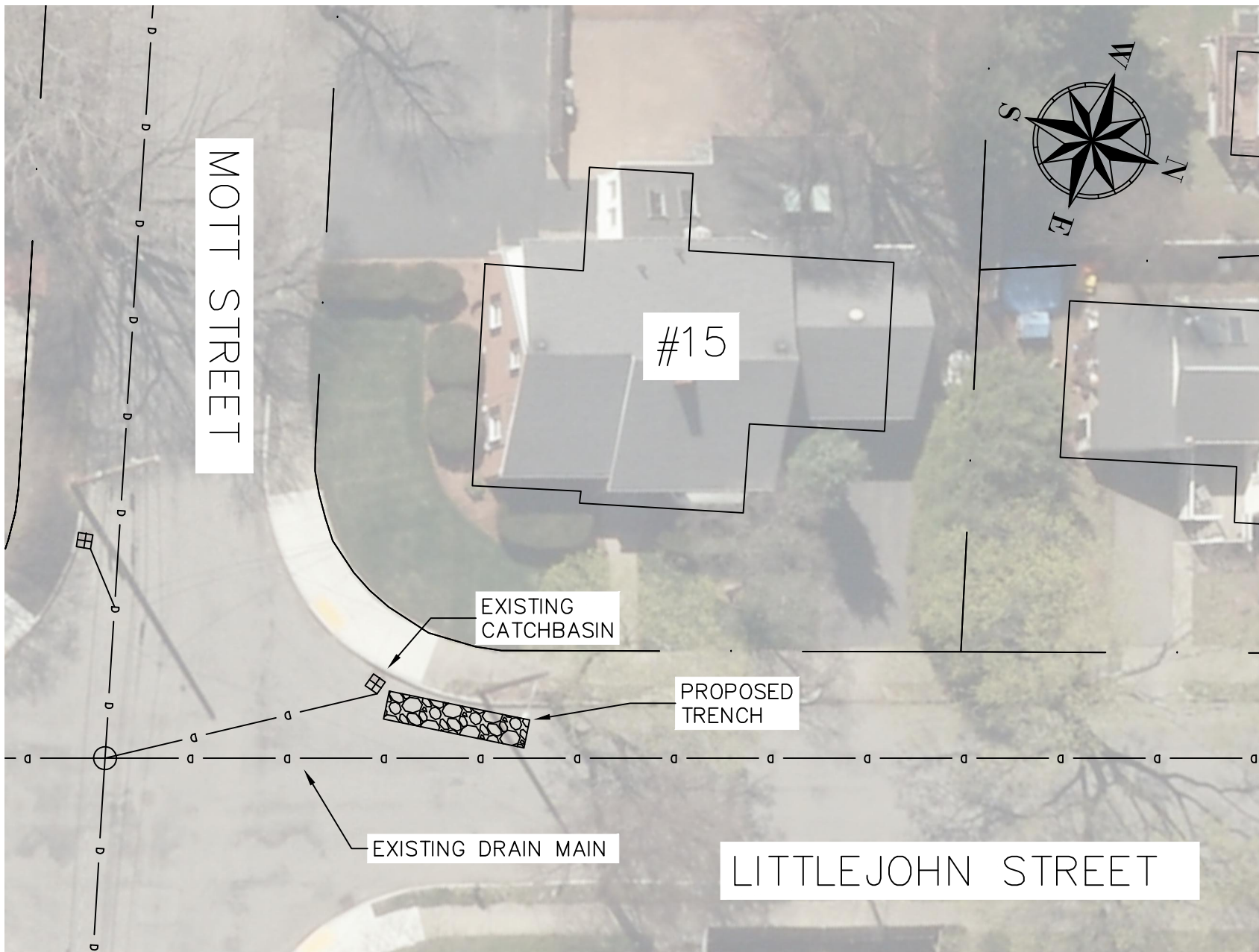
LOCATION #15 - 114 MARY STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	114 MARY STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	5.95	
DEPTH EXISTING INV. OUT (FT)	2.70	
DEPTH TRENCH PIPE INV. (FT)	2.95	
IMPERVIOUS AREA (ACRES)	0.31	



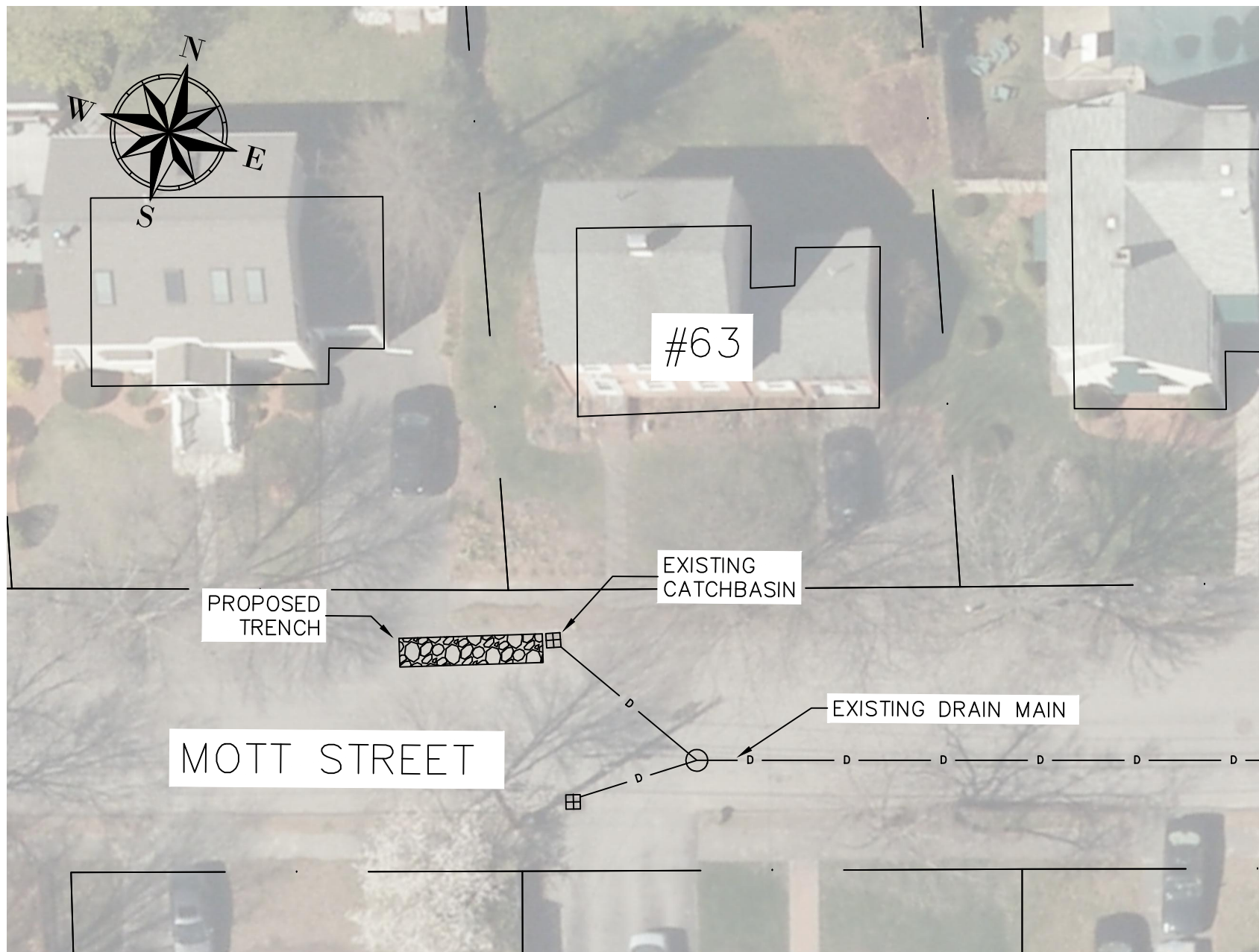
LOCATION #16 - 4 LITTLEJOHN STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	4 LITTLEJOHN STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	6.55	
DEPTH EXISTING INV. OUT (FT)	3.30	
DEPTH TRENCH PIPE INV. (FT)	3.55	
IMPERVIOUS AREA (ACRES)	0.19	



LOCATION #17 - 15 LITTLEJOHN STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	15 LITTLEJOHN STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	6.45	
DEPTH EXISTING INV. OUT (FT)	3.20	
DEPTH TRENCH PIPE INV. (FT)	3.45	
IMPERVIOUS AREA (ACRES)	0.16	



LOCATION #18 - 63 MOTT STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	63 MOTT STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	6.00	
DEPTH EXISTING INV. OUT (FT)	2.50	
DEPTH TRENCH PIPE INV. (FT)	2.75	
IMPERVIOUS AREA (ACRES)	0.27	

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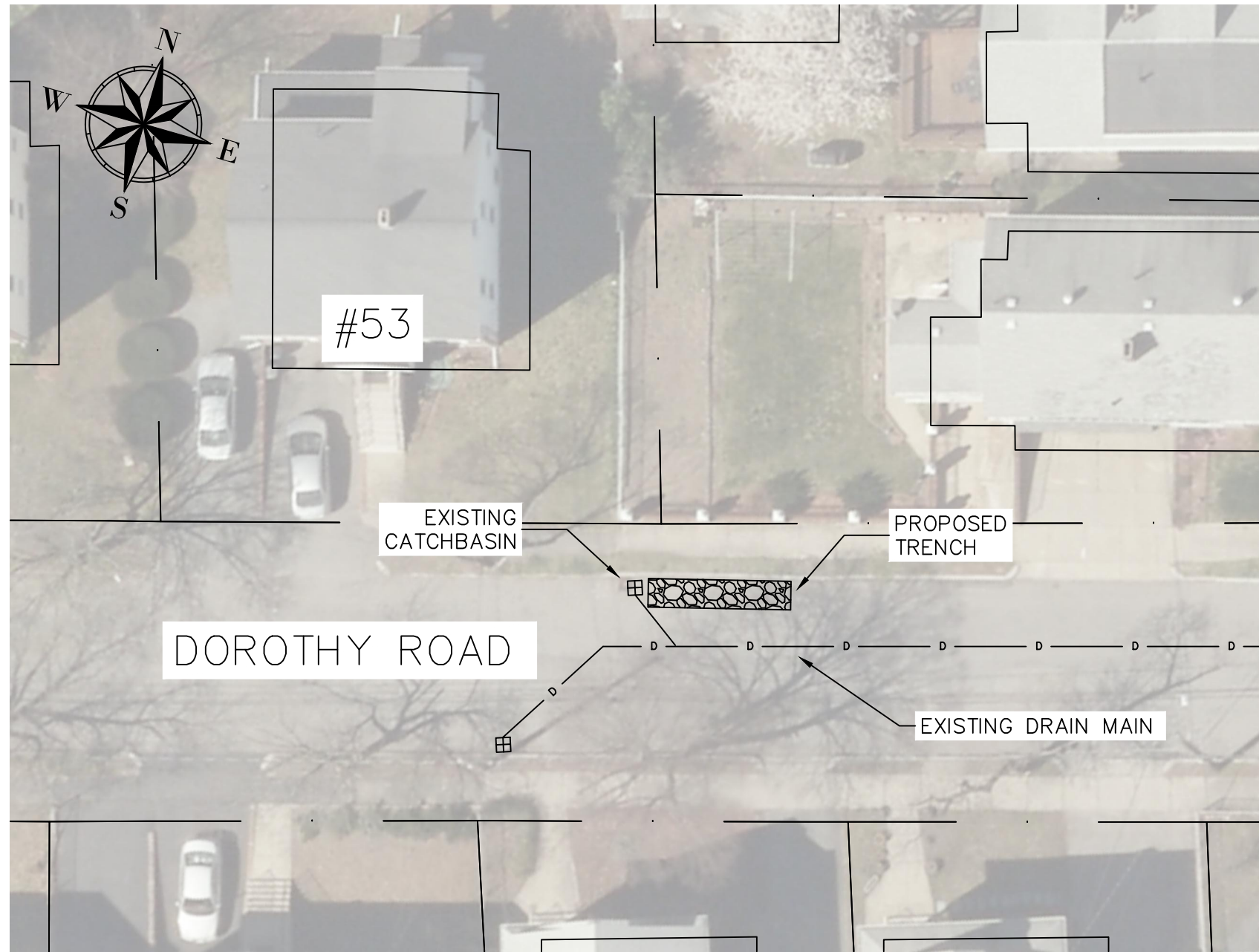
No.	Revision/Issue	Date

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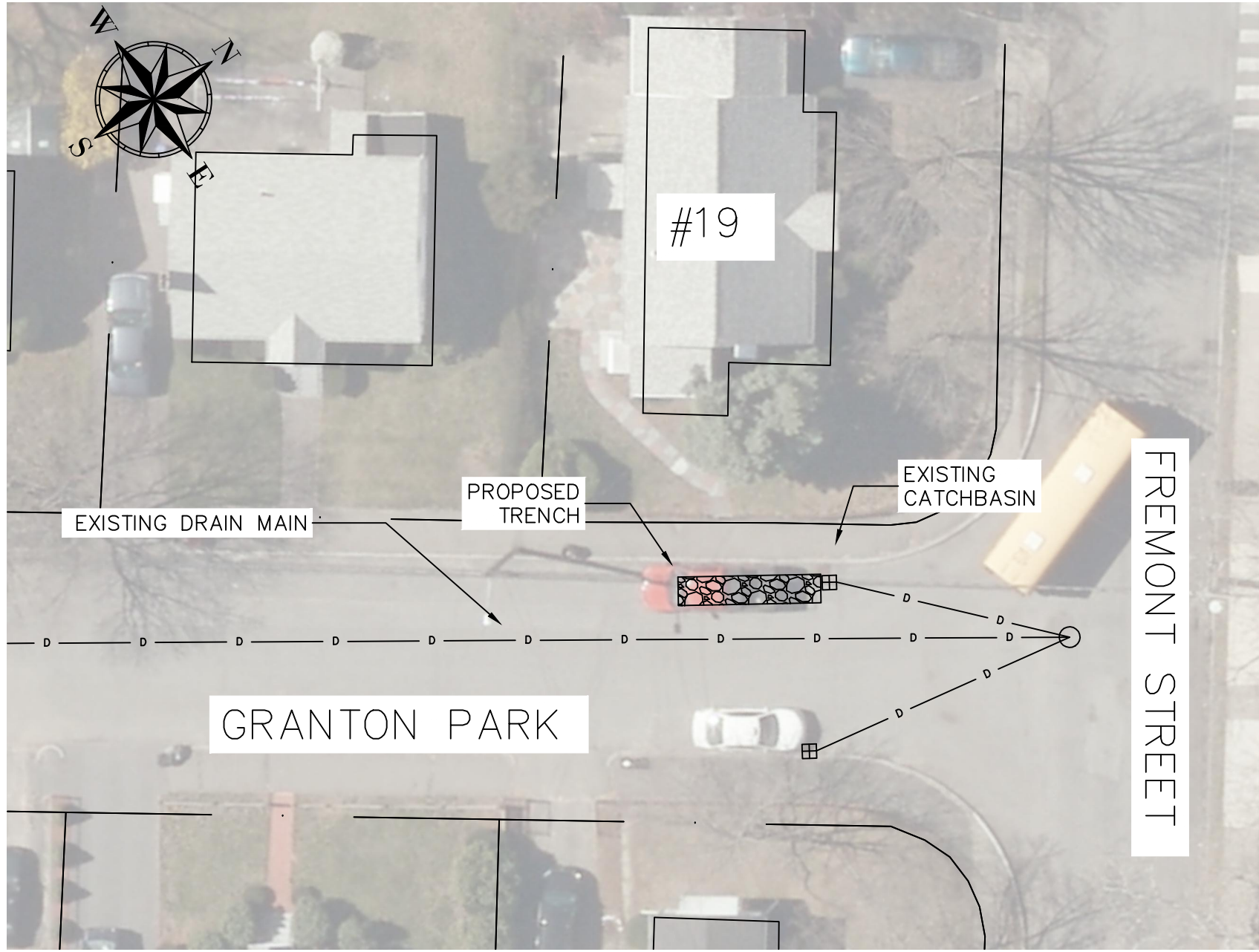
LOCATIONS 13-18

Drawn By:	AC	C-3
Verified By:	WCC	
Scale:	NTS	
Date:	FEBRUARY 2022	



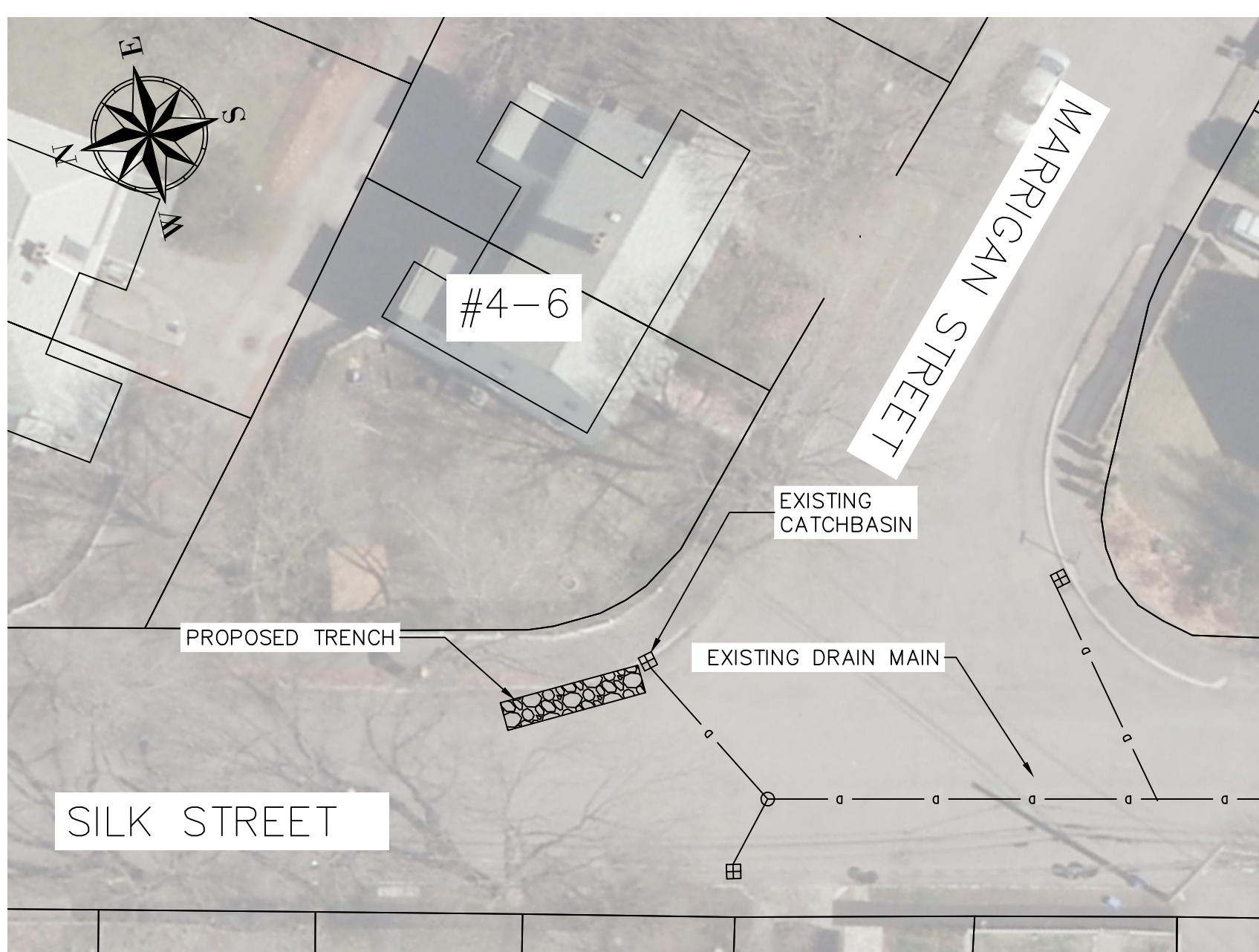
LOCATION#19 - 53 DOROTHY ROAD
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	53 DOROTHY ROAD	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	5.80	
DEPTH EXISTING INV. OUT (FT)	2.30	
DEPTH TRENCH PIPE INV. (FT)	2.55	
IMPERVIOUS AREA (ACRES)	0.24	



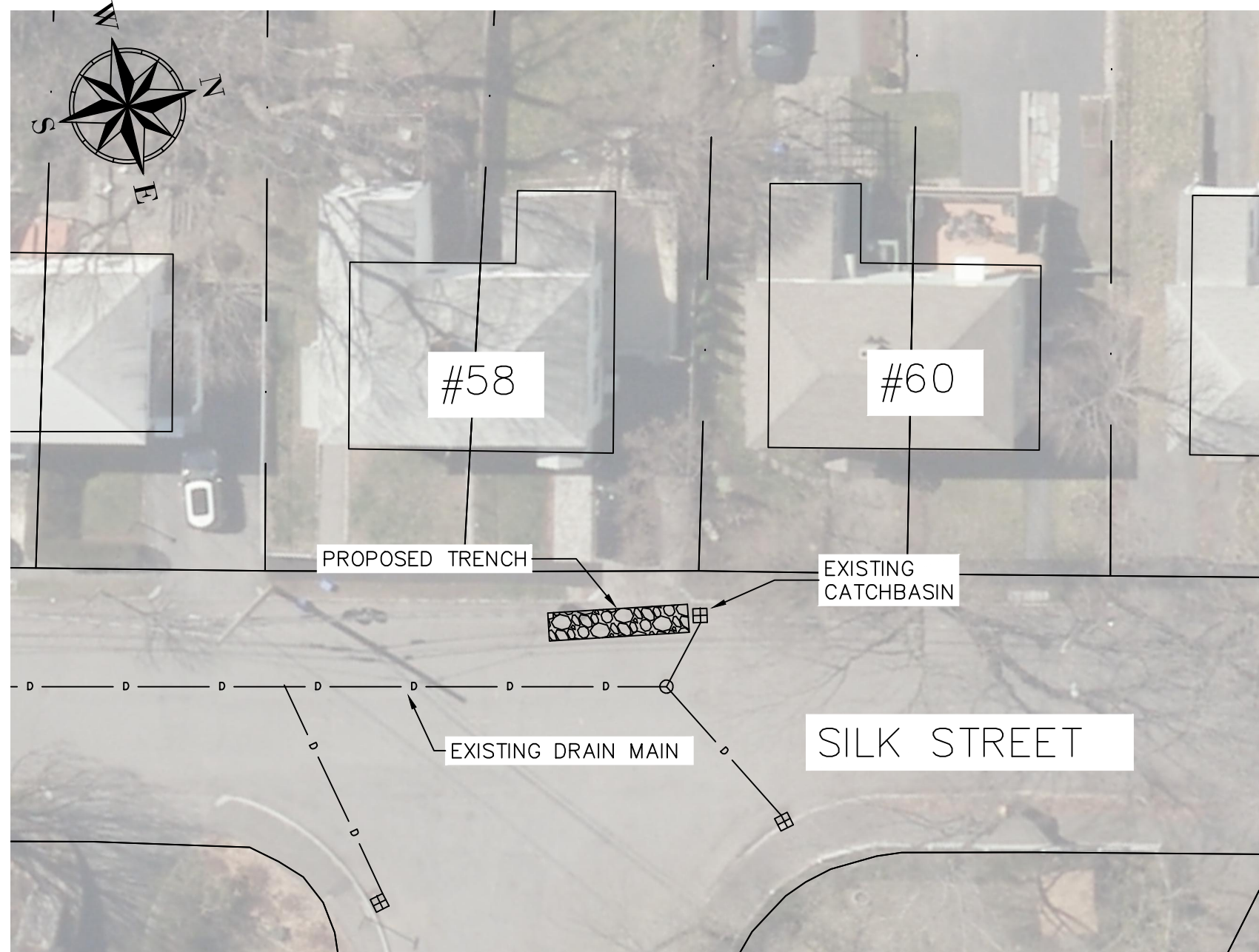
LOCATION #20 - 19 FREMONT STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	19 FREMONT STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	4	
DEPTH (FT)	6.35	
DEPTH EXISTING INV. OUT (FT)	3.10	
DEPTH TRENCH PIPE INV. (FT)	3.35	
IMPERVIOUS AREA (ACRES)	0.33	



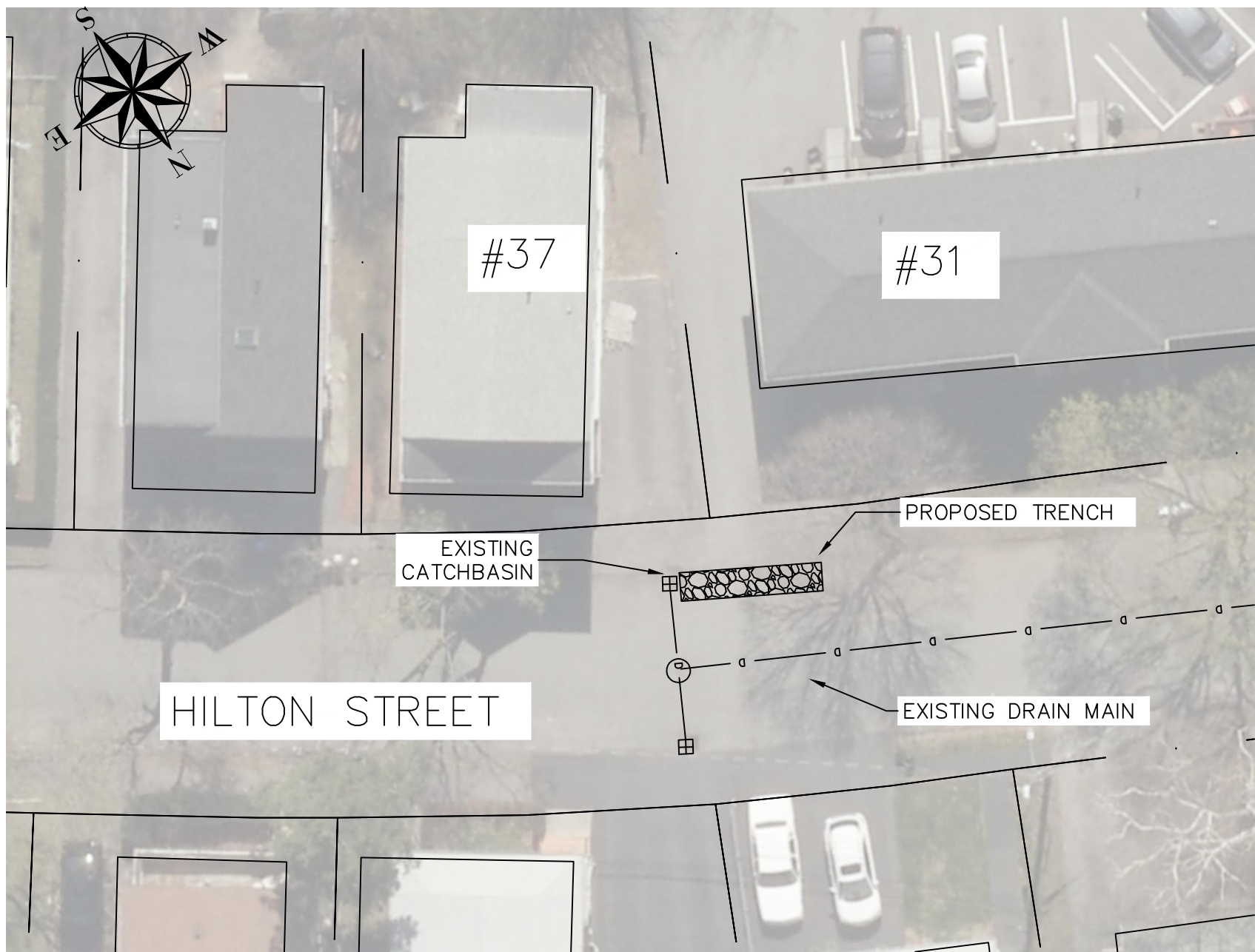
LOCATION #21- 4 MARRIGAN STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	4 MARRIGAN STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	4	
DEPTH (FT)	5.85	
DEPTH EXISTING INV. OUT (FT)	3.10	
DEPTH TRENCH PIPE INV. (FT)	3.35	
IMPERVIOUS AREA (ACRES)	0.24	



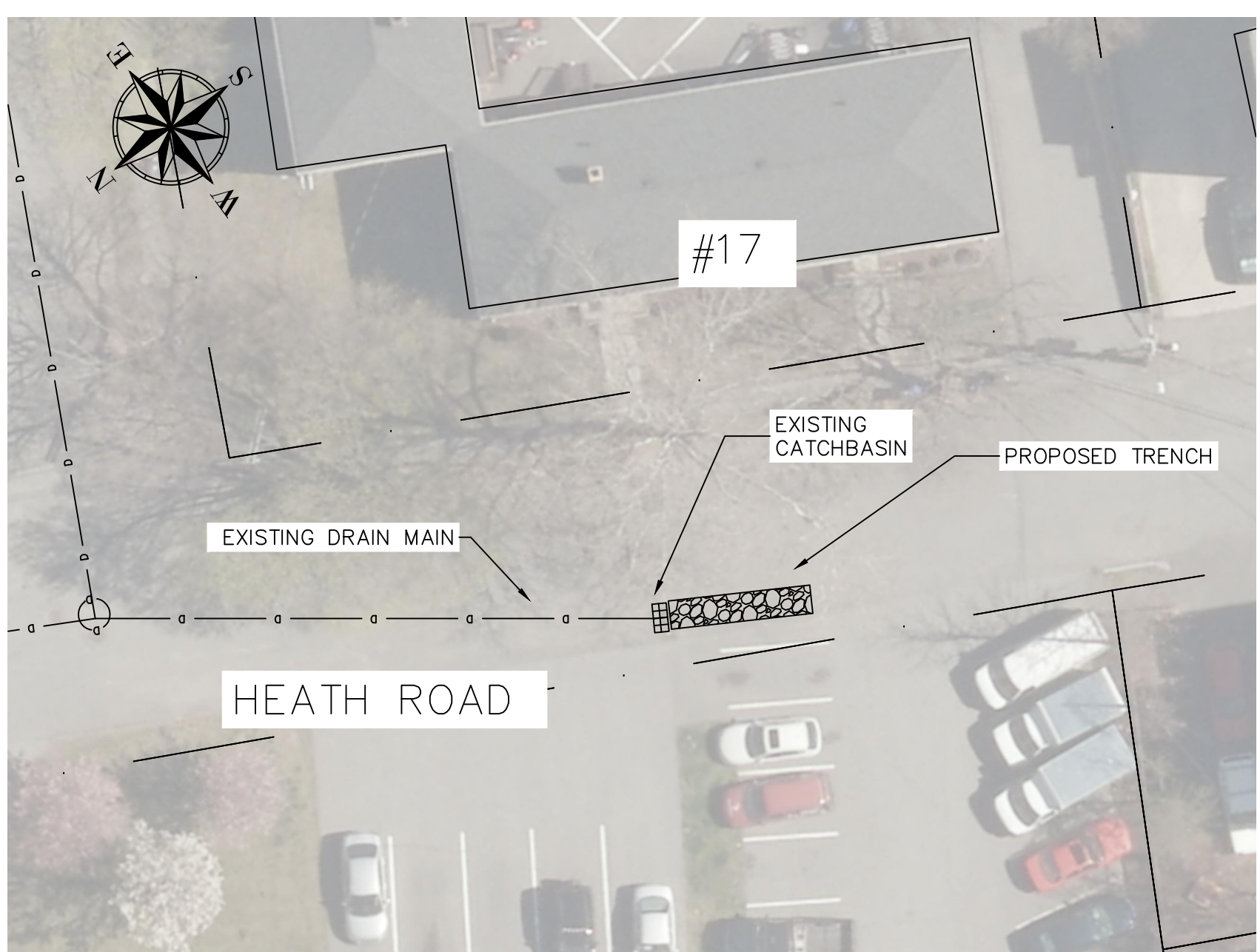
LOCATION #22 - 60 SILK STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	60 SILK STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	30	
WIDTH (FT)	4	
DEPTH (FT)	6.45	
DEPTH EXISTING INV. OUT (FT)	3.20	
DEPTH TRENCH PIPE INV. (FT)	3.45	
IMPERVIOUS AREA (ACRES)	0.28	



LOCATION #23 - 37 HILTON STREET
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	37 HILTON STREET	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	4	
DEPTH (FT)	6.75	
DEPTH EXISTING INV. OUT (FT)	3.50	
DEPTH TRENCH PIPE INV. (FT)	3.75	
IMPERVIOUS AREA (ACRES)	0.26	



LOCATION #24 - 17 HEATH ROAD
SCALE: N.T.S.

DESIGN & AS-BUILT TABLE		
NEAREST ADDRESS	17 HEATH ROAD	
TRENCH DESIGN	DESIGN	AS-BUILT
LENGTH (FT)	35	
WIDTH (FT)	4	
DEPTH (FT)	6.35	
DEPTH EXISTING INV. OUT (FT)	3.10	
DEPTH TRENCH PIPE INV. (FT)	3.35	
IMPERVIOUS AREA (ACRES)	0.25	

- NOTES
1. PLANS WERE DEVELOPED USING AVAILABLE AERIAL IMAGERY, EXISTING PLANS, AND ON-SITE OBSERVATIONS. A FORMAL SURVEY OF THE PROJECT AREAS WAS NOT CONDUCTED. UTILITY LOCATIONS AND INVERT MEASUREMENTS ARE APPROXIMATE.

2. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING DIG-SAFE AND ALL APPLICABLE UTILITIES OF THE PROPOSED WORK PRIOR TO ANY EXCAVATION. THE TOWN OF ARLINGTON IS NOT A MEMBER OF DIG-SAFE AND MUST BE NOTIFIED DIRECTLY AT LEAST 72 HOURS PRIOR TO EXCAVATION BY CALLING 781-316-3310.

3. TRENCHES HAVE BEEN PROPOSED IN LOCATIONS WHERE NO UTILITY CONFLICTS WERE APPARENT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL APPLICABLE UTILITIES FOR APPROPRIATE MARK-OUTS AND CONFIRMING NO CONFLICTS ARE PRESENT. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER SHOULD ANY EXISTING UTILITY CONFLICTS BE IDENTIFIED WITHIN PROPOSED TRENCH LIMITS.

4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING RESIDENTS AND ABUTTERS OF ANY WORK THAT MAY INTERFERE WITH DRIVEWAY AND WALKWAY ACCESS.

5. A RELATIVE LOCAL DATUM HAS BEEN SET FOR EACH TRENCH LOCATION. THE CATCHBASIN RIM ELEVATION HAS BEEN SET TO ZERO FEET (0.0') AT EACH LOCATION.

6. EXISTING ASPHALT SHOULD BE SAWCUT PRIOR TO EXCAVATION.

7. TRENCHES SHOULD BE BACKFILLED AND COMPACTED IN 12 INCH LIFTS.

8. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE CONSTRUCTION SIGNAGE AND BARRIERS AS NEEDED AND SHALL BE INCIDENTAL TO THE CONTRACT.

9. CONTRACTOR TO MAINTAIN CLEAN WORK ZONE AND SWEEP WORK SITE DAILY.

10. PAVING TO BE COMPLETED WEEKLY.

11. EROSION CONTROL SHALL BE USED WHEN NECESSARY AND CONSIDERED INCIDENTAL TO THE CONTRACT. ANY SEDIMENT THAT ENTERS THE TOWN'S STORMWATER SYSTEM AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AT THE EXPENSE OF THE CONTRACTOR.

12. CONTRACTOR SHOULD TAKE CARE TO NOT IMPACT NEARBY TREES DURING CONSTRUCTION.

13. ANY AREA DISTURBED BY THE CONTRACTOR OUTSIDE OF THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.

No.	Revision/Issue	Date

Town of

ARLINGTON

Engineering Division

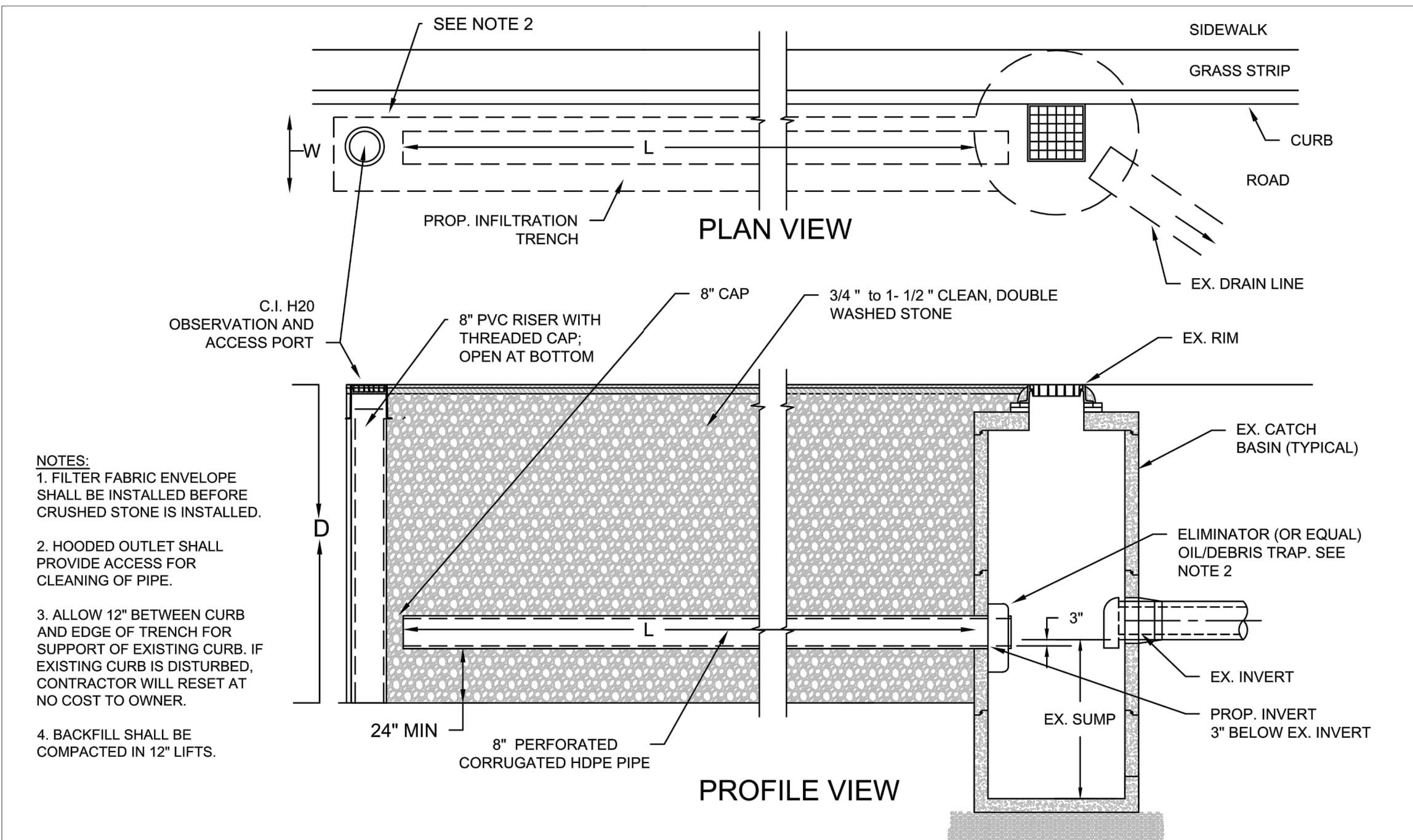
51 Grove Street

Arlington, MA 02476

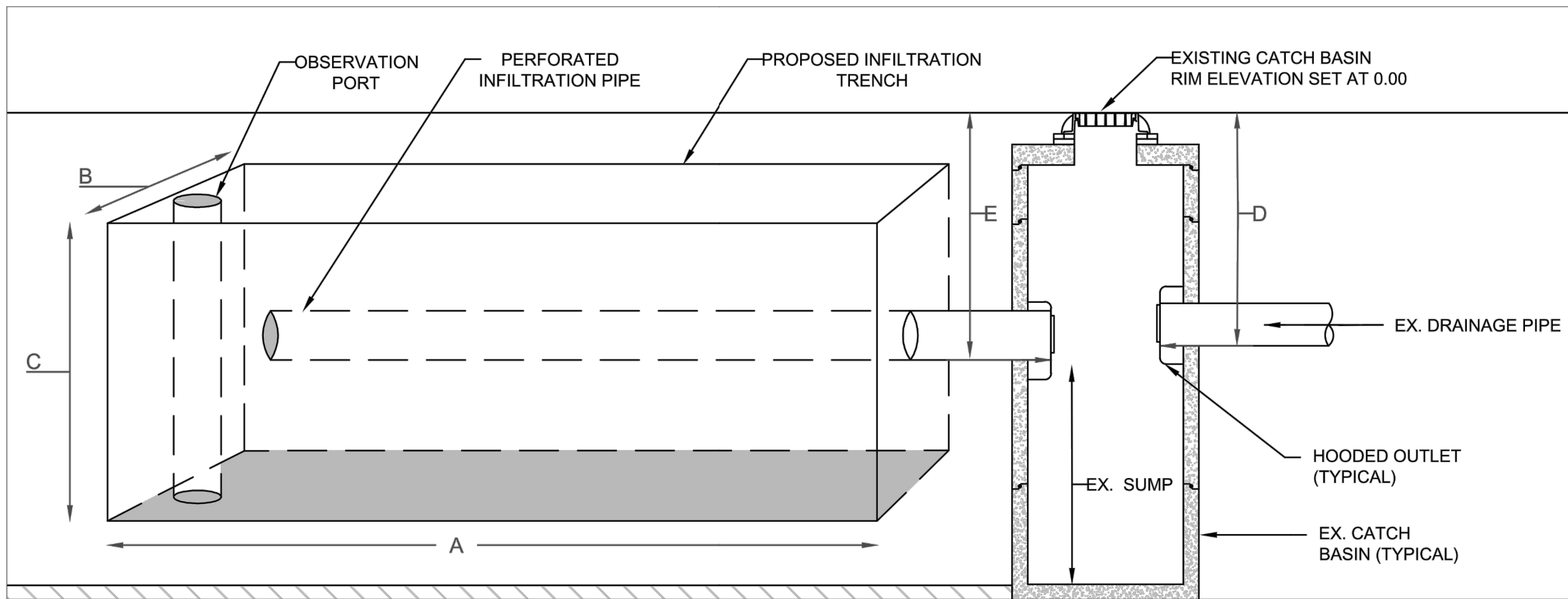
2022 GREEN INFRASTRUCTURE PROJECT

LOCATIONS 19-24

Drawn By:	AC	C-4
Verified By:	WCC	
Scale:	NTS	
Date:	FEBRUARY 2022	

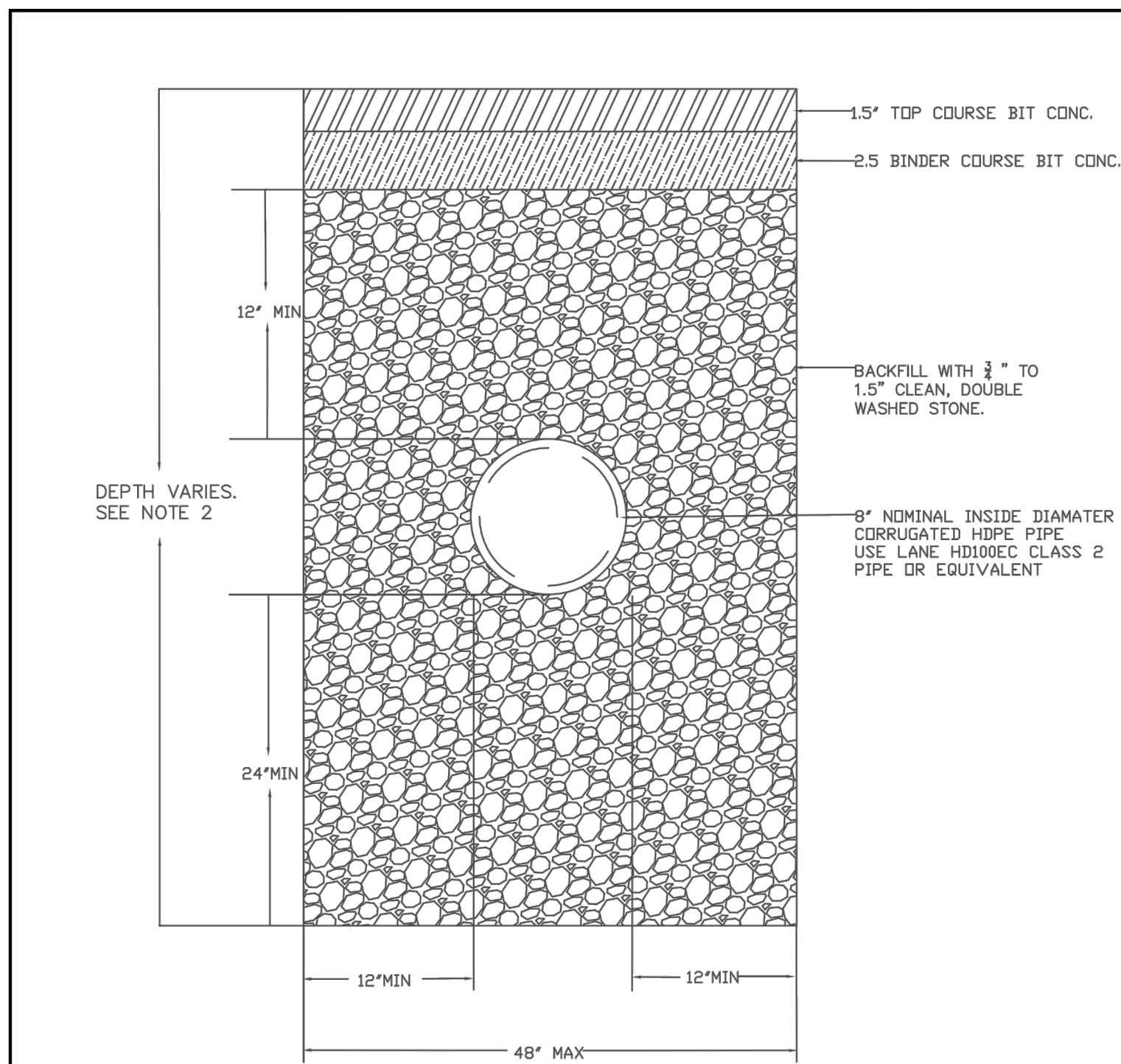


	STANDARD INFILTRATION TRENCH SYSTEM PLAN AND PROFILE VIEWS		JANUARY 2021	C-2
			NOT TO SCALE	
			DRAWN BY: AC	

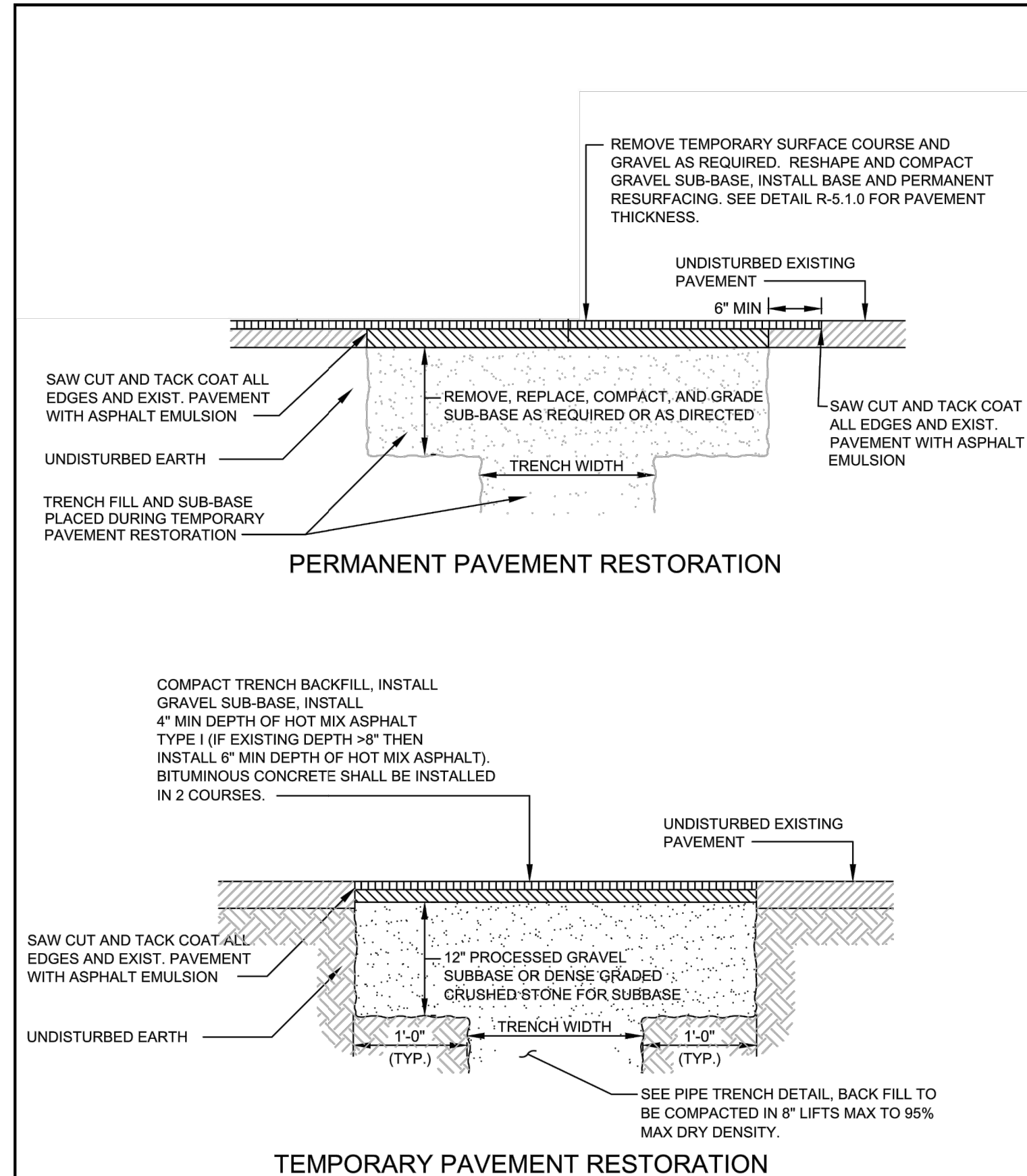


	STANDARD INFILTRATION TRENCH DESIGN SHEET		JANUARY 2021	C-1
			NOT TO SCALE	
			DRAWN BY: AC	

DESIGN TABLE	
LOCATION	
LENGTH - A	
WIDTH - B	
DEPTH - C	
EXISTING INVERT - D	
PROPOSED INVERT - E	



	STREET INFILTRATION TRENCH CROSS SECTION VIEW		JAN 2021	C-3
			NOT TO SCALE	
			REVISION ①	



	PAVEMENT DETAILS FOR TRENCH RESTORATION		JAN. 2015	R-0018
			NOT TO SCALE	
			REVISION ①	

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Town of
ARLINGTON
Engineering Division
51 Grove Street
Arlington, MA 02476

2022 GREEN INFRASTRUCTURE PROJECT

STANDARD CONSTRUCTION
DETAILS

Drawn By: AC	Sheet: D-1
Verified By: WCC	
Scale: NTS	
Date: FEBRUARY 2022	